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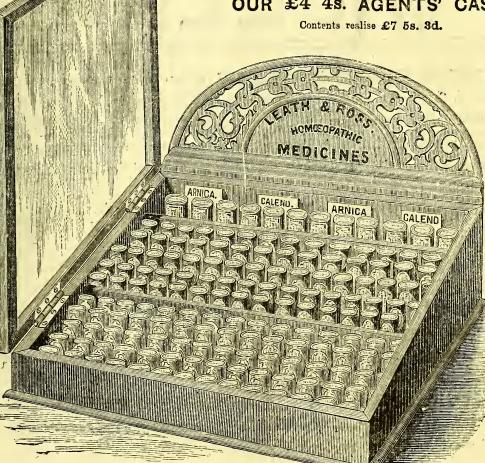
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substitutes, in that it is made from a different base (American Crude Petroleum) and by a different process, and no acids are used in its manufacture. It is not a distillate, contains no parafine, is not crystalline in its structure, and does not separate upon cooling, after being heated indefinitely. It is simply a concentrated Jelly of Petroleum, purified by repeated filtrations through bone black.

To compare "Vaseline" with a distillate of Petroleum is equivalent to testing the quality of butter by experimenting with cheese.

originated by, and is registered all over the world as the Trade Mark of this Company for their Emollient, Remedial, Toilet, and other preparations of Petroleum; and the Trade are cautioned against using the said word in connection with any goods not manufactured by us.

Reference is asked to notice of judgment obtained by this Company against infringers of their Trade Word, "Vaseline," published in The Chemist and Druggist of December 15, 1884, and previously.

Also to the Circular in this issue (facing page 164), which gives the exact style of the genuine packages of the Medicinal, Toilet, and Household Preparations.

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FOOD FOR INFANTS.

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INTERNATIONAL HEALTH EXHIBITION.

This will be found one of the most nutritious and easily digested Foods for Infants.

It is prepared from the best wheaten flour, treated with malt in solution, whereby the food becomes very largely self-digestive. This process includes all the soluble and digestive properties of the malt, and avoids the introduction of the husk, which is directed by Professor Liebig to be strained out when foods are made with ground malt.

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It is a complex solution of Iron, Lime, Soda, and Potash, in a Phosphoric Syrup. The Iron is in the Ferrous condition.

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Each bottle of the genuine Preparation is secured by their seal, and the cases bear their Registered Trade Mark.

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Extract Bynes (Squire).

This Extract is prepared from the finest Malted Barley, at a very low temperature, in vicus, by a special process, under the immediate supervision of one of the Firm.

It possesses the highest digestive power of any Extract of Malt in the Market. A copy of the comparative examinations of the various kinds reported in the Medical Times, June 21, 1884, pages 847 and 848, will be forwarded to any Physician on application.

It contains only the soluble constituents of good Malt.

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NATIONAL HEALTH SOCIETY'S EXHIBITION, 1883, INTERNATIONAL HEALTH EXHIBITION, 1884.

SQUIRE,

Chemist on the Establishment in Ordinary to the Queen.

413 Oxford St.,

LONDON.

[3ee Spanish Adver.isement, top of page f.

Fabricante del celebre

Germinado y Cocido, Intitulado "SOUIRE'S FOOD FOR INFANTS."

MEDALLA DE PREMIO. EXPOSICION INTERNACIONAL DE HIGIENE.

Esto es uno de los alimentos mas nutritivos para los niños y uno de los mas fáciles á digerir. Se prepara de la harina de trigo mas fina y se trata con la malta en solucion, por cuyo medio el alimento se hace en gran parte digestivo de por sí. Este procedimiento inc'uye todas las propiedades solubles y digestivas de la malta y evita la introducción de la cascarilla que, segun el Profesor Lichig, debe separarse de los alimentos preparados de la cebada germinada.

Es una solucion compleja de hierro, cal, sosa y potasa, formando un jarabe fosfórico. El hierro está en condicion ferrugin sa. El privilegio para este preparado, antes conocido con el nombre de PARRISHS CHEMICAL FOOD (alimento químico de Parcish), ha sido comprado por los Señores Squire. Cada botella de la preparacion genuina lleva el sigilla de la casa Squire, y las ca as van estampadas con la marca de fábrica registrada.

Superdiastásica

EXTRACTO

Se propara este extracto de la cebada germinada mas fina, á una temperatura muy baja y en vacio, por un procedimiento especial bajo la supervision inmediata de uno de los jefes de la casa. Posee mayores cualidades digestivas que ningua otro extracto de malta en el mercado. Se enviará á los farmaceúvicos que lo pidan un ejemplar de los exámenes comparativos de las diferentes clases de extractos de que se da cuenta en el Medical Times de 21 de Junio de 1884, pázinas 847 y 848. El extracto contiene solamente los constituyentes solubles de malta superior.

 \mathbf{DOS} MEDALLAS DE PREMIO. Exposicion nacional de Higiene 1883, Exposicion internacional de Higiene, 1884.

SQUIRE, El Químico del Establezimiento, es Químico en ordinario á la Reina de Inglaterra,

413 OXFORD ST.,

RES.

[Véase el anuncio inglesi en la página 5.

APOLOGY AND INJUNCTION.

In the Sigh Court of Justice (Chancery Division).

CHELL, Limited, Plaintiffs. CONDY 80 67 Turnmill Street, London, E.C.

ROBERT CO., Defendants, SUMNER

WHOLESALE DRUGGISTS, 40a Lord Street, Liverpool.

We, the undersigned Defendants in this case, having, in ignorance of the legal rights of the Plaintiffs, sold disinfecting fluid under the name of "CONDY'S FLUID," such compound NOT being of the Plaintiffs' manufacture, hereby express our regret, and have consented to a PERPETUAL INJUNCTION WITH COSTS in this action.

Dated 17th day of October, 1884.

(Signed)

R. SUMNER & CO.

J. W. THOMPSON, Solicitor, Liverpool. (Witness)



NEPENTEE.

FERRIS & Co., v. GOODMAN.

NOTICE IS HEREBY GIVEN that by an Order of the Chancery Division of the High Court of Justice, made the 18th day of July, 1884, in the above action, IT WAS ORDERED that the Defendant and others be perpetually restrained from selling, or offering for sale, any formula or recipe for "Nepenthe," and from otherwise prejudicing the sale thereof by, or injuring the title thereto, or Trade Mark therein, of the Plaintiffs, Messrs. Ferris & Co., of Bristol, the registered proprietors thereof.

And it was further ordered that the Defendant do pay the costs of the said Action. Dated this 12th day of August, 1884.

(Signed) CHILTON & GREEN-ARMYTAGE, BRISTOL,

Solicitors for the said Plaintiffs.

MIEPENINE

(Prepared exclusively from Opium.)

The safest and best preparation of Opium; produces neither headache, sickness, nor constipation.

Dose, the same as that of Tinct. Opii, P.B.

Price 8s. per pound.

The word NEPENTHE being registered under the Trade Marks Act, Messrs. FERRIS & CO. have the SOLE RIGHT to use it; and the Trade are respectfully cautioned against any infringement of their rights.

Trade and Wholesale Terms for NEPENTHE upon application.

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MANUFACTURING CHEMISTS, BRISTOL.

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EZIZIO IN TECTANT.

This Preparation is a SURE and HARMLESS Disinfectant of the Blood and Tissues of the Body, rendering the Human Frame PROOF against Zymotic or Infectious Diseases—

MEASLES, SCARLET FEVER, DIPHTHERIA, SORE THROAT, SMALL POX, TYPHOID, CHOLERA, ETC.

It would be difficult to exaggerate the value of ZYMOLYS as a PREVENTIVE of the Spread of Infectious Diseases in Communities, Public Institutions, Schools, among Troops in the Field, Ships' Crews, &c., while Clergymen, District Visitors, Colonists, and Travellers abroad, and especially those whose employments may expose them to foul and unhealthy odours, &c., will experience great benefit from its use.

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Este preparado es un desinfectante SEGURO é INNOCUO para la sangre y los tisues del cuerpo, haciendo el cuerpo humano PRUEBA contra las enfermedades ziméticas é infecciosas—

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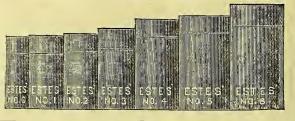
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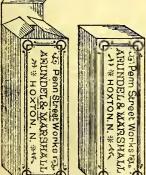
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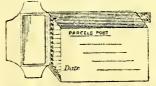
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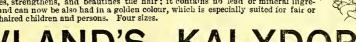


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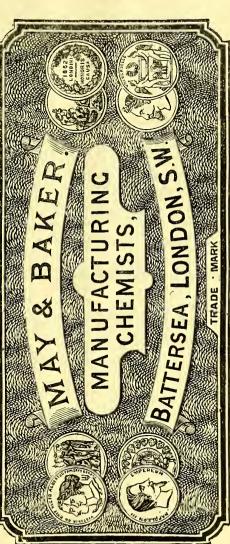
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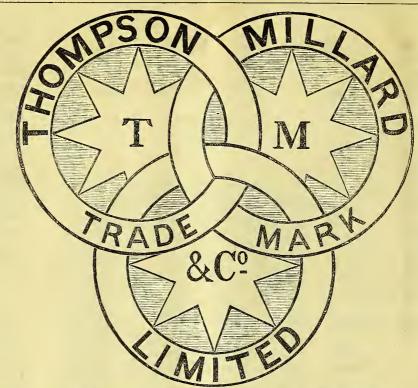
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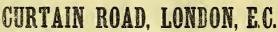


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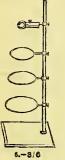


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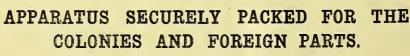


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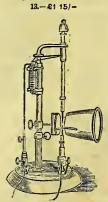
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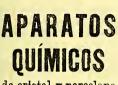
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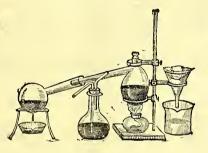
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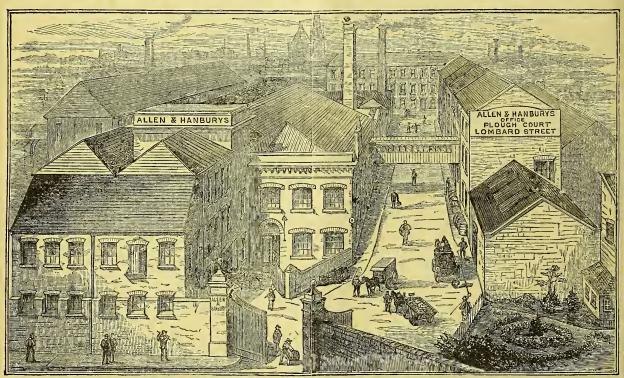
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Duncan, Flockhart Macfarlan, J. F. Smitb, T. and H. Zimmermann

CIGARS

Benson Savar's Cubeb Cigarcttes Symonds and Co.

HYDROCHLOR.

Burgoyne Burbidges Corbyn Stacey Tanner and Co.

COCOA AND CHO. COLATE

Cadbury

COD-LIVER OIL

Allen and Hanburys Jensen, J., and Co. Lorimer and Co. Smith, T. J. Southall Bros.

Evans (Conroy's Malt Coffee) George and Welch (Dandelion) Phillips and Sons Symington

COLLAPSIBLE

TUBES Brooks, H. Peel & Co.

COMBS

Stewart, S. R., and Co.

COMPRESSED

MEDICINES

Hooper, B., and Co. Leo (Chlorate)

COPYING

Zuccato (Trypograph)

CORKS

Société des Bouchons

CORN CURES

Doric Curative Co. Pattison, George Lawrence and Co. (Brodie's) Robinson, B. Young's

CRUCIBLES

Morgan Crucible Co. Pat. Plumbago C.

DENTIFRICES

Austin (Carbolated) Bannerman Bannerman
Barton
Beddard, J.
Darling (Coffin's)
Eskell's Tooth Powder
George and Welch (Carbolinc)
Jewsbury and Brown
Martin, J. W. (Rozalium)
Newbery (Cherry Tooth Paste)
Pembo (Benedictine)
Rimmel
Sutton, O., and Co.
Thompson and Capper
Woods, W. (Areca Nut)

DENTISTRY

Bennet, C. (L.D.S. sine di-ploma) Buck, F. (Lessons) Matthews (Mechanical)

DOG MEDICINES

DISINFECTANTS

Barclay (Zymolys) Boake. A, and Co. (Tuson's) Churchill Churchill
Condy and Mitchell
Jeye's Perfect Purifier
Kreochyle (Boroglyceride)
New Carbolic Sanitary Co.

DRUGGISTS' SUN.

DRUGGISTS' SUN.
Baiss Bros.
Bentley, E.
Bourne, Johnson
Brefit's Lim.
Evans, Lescher and Webb
(Hawley's Counter Adjuncts)
Fordham, W. B. (Various)
Lairtz (Pine Wool)
Lloyd, W. H., & Co.
Lynch and Co.
Maw, S., Son and Tbompson
Newbery, F., and Sons
Quillaia
Sanger and Sons

anger and Sons

Savars Southall Bros. (Sanitary Twls) Thompson, Millard Toogood

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[See SURGITAL.]

DRUG GRINDERS

Green, F., and Co.

DUBBIN

Dales', J. T.

DUTCH

MEDICINES

Bentley and Vanderpump Bicber, J. D.

DYES

Crawshaw. E., and Co. Crowther, G. T. Pronk Davis Schapmann (Ani inc)

EARTHEN. GOODS

[See PORCELAIN GOODS]
Morgan Crucible Co. (Porous Pots)

EAU DE COLOGNE Farina, J. M., No. 4

ELECTRIC APPAR

Darton, F., and Co. Hallet, R. H., and Co. Morgan (Porous Pots) Orme and Co.

ENEMAS

Davidson Rubber Co.
Ingram and Son
Lynch and Co.
May Roberts lay Roberts anger and Sons

ENGINES Crossley Bros. (Gas)

ENGRAVERS. Barker, W., and Son

ESSENCES, FRUIT AND SOLUBLE

Pais Bros.
Bush, W. J., and Co.
Hay's Soluble Lemon, &c.
Hearon, Squive
Kay Bros.
Lorimer & Co.
May and Baker
Wright, Laymau (Almond)

ESSENTIAL OILS

Burgoyne and Burbidges
Bush, W. J. (Lemons, &c.)
Charnes and Go.
Clay, Dod & Co.
Cocking (Japan Peppermt)
Felton (Eucalyptus)
Fratelli de Pasquale
Hodgkinson, Prestons (Almondes) Hodgkinson, Prestons (Al-monds)
Lorimer & Co.
May and Buker
Outes, Geo. (Sicily)
Raynand (Lavender)
Hocke, Tompsitt (Excalyptus)
Todd (Am. Pepperuint)
Wright Layman (Camphor)

EXTRACTS, FLUID

Evans, Sons and Co. Harker, Stagg Hearon, Squire Herrings and Co. Parke, Davis Potter and Clarke Stenius, F., and Co. Wyleys and Co.

EXTRACT, MEAT

Brand and Co. Kreochyle Liebig Co. Moir's Soups Poths (Leube Rosenthal) Richards, J. M. (Delacre) Widenmann (Koch's Peptones)

Howards and Sons May and Baker Polglase, F. J. W. Robbins

FACE POWDERS

Chuhb, J., and Co. (Violet) Foulkes Foulkes Woolley, Sons

FEEDING BOTTS.

Bourne, Johnson Hearn, Ridell and Co. Kilner Bros.
Lang, J. and J.
Maw, Son and Thompson
May Roberts
Thompson, Millard

FILTERING

Doulton and Co. Judson, D., and Son Maignen (Filtre Rapide) Silicated Crbn Fitr Co. Universal Company

FOAM PRODUCES Bush, W. J., and Co.

INFANTS AND INVALIDS

AND INVALIDS
Benger's Preparations
Hearon, Squire (Malted)
Jenson (Peptone)
Savory & Moore (Pancreatie)
Cybertone (Peptone)
Cyber (Peptone)
Cyber (Milke)
Scott's Midlthu Oat Flour
Southall Bros. (Malted)
Squire (Malted)
Van Abbott (Diabetic)
Walker, T. (Malted)

FULLER'S BARTH

Chubb, J., and Co. Hynam, J.

GAS ENGINES

Crossley Bros.

GINGER ALE

Bingley, J. Cautrell and Cochrane Harston and Co. Hay, W. Schweppe (Dry)

GINGER ESS.

Goodall (Beer Powders) Hay, W. Hearon, Squire

GLOVES, BATH

Condron (Flesh)

GLYCERINE

Fink Price's Candle Co.

GRANULAR PARATIONS

Bishop, A. (Various) Herrings Stearns, F., and Co.

GRINDING

Askham Bros. and Wilson Follows and Bate

Fink (Arabie, &c.) Waterston (Mucilage)

GUTTAPERCHA Stevens, P. A. (White)

HAIR PREPARA

TIONS

Austins (Carbolated)
James & Co. (Herbl. Pom.)
Leathart (Dyes)
Rimmel
Robare (Aureoline)
Rogers, Wm., Hair Lotion)
Stewart, W. II.

HERBALISTS

Bittner, F. L. (Austria) Butler, McCulloch Potter and Clarke

HOMEOPATHIC

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HORN GOODS Stewart, S. R., and Co.

HYPOPHOSPHITES

Dunn and Co. Forster and Gregory Typke & King

Barnett and Foster Davenport and Co. Harrison, W. B.

INHALERS

Austin, J. B. (Pocket) Bourne, Johnson Toogood (Thomsons)

INK

Antoine Bewley and Draper Duncan, Flockhart Proctor, J. M. (Defiance)

INSECTICIDES

Corny Soper (Tobacco) Galzy, E. Steiner and Co.

IODINE Zimmermann

RETCHUP Tyrer, P.

LABELS

Townsend (Excter)

LANTERNS Pumphrey, A.

LEATHER

Frost, E. (Chamois) Moore, A. F. (Chamois)

Butler, McCulloch Fitch and Nottingham Potter and Clark

LICORICE

Craven, M. A., aud Son

LIME JUICE Feltoe and Sons (Spécialité) Montserrat (see Evans)

LINSEED

Greeu, F., and Co. Kemp, W., & Sons

Liverpool Lint Co. Maw, Son, and Thompson Newsome (Surgeons') Robinson and Sons Seabury and Johnson

LOZENGES

Allen and Hanburys
Barclay (Ball's Bronchial)
Craven, M. A., and Son
Croker (Opera Voice)
Gibson, R. (Manufacturer)
Hodgkinson (Cough)
Lynch and Co.
Randall (Black Current)
Sauger and Sons

MAGNESIA

Bishop, A. Dinneford (Fluid) Murray, Sir James (Fluid)

MALT EXT., ETC.

Allen and Hanburys Eurgoyne Burbidges Eurroughs, Wellcome Evans, J. Lorimer and Co. Squire

MARKING INES

Bond's Daughter (and New Pencil) Bunker, J. Murphy, J.

MATCHES

Dangerfield (Cases) Fordhain, W. B.

MAT. MEDICA CARINETS

Southall

MEDICINE CHESTS

Day, Son & Hewitt (Vcterin.)

MENTHOL

Cocking and Co. Christy and Co. Hockin, W. Shirley Symes and Co. Todd, A. M.

MERCURIALS

Bush, W., and Co. Howards and Sons May and Baker

MINING

Follows and Bate

MORPHIA

Howard and Sons Macfarlan and Co. Smith, T. and H.

Symcs and Co. (Thibet)

MUSTARD

Finch, Rickman Guihery (Leaves

MAPHTHA

MacNair, A., and Co. Morris and Callard

NEW REMEDIES

Corbyn Stacey

NIGHT LIGHTS

Bourne Johnson Clarke, S. Lloyd, W. II., and Co.

OILS, PAINTS, &c.

Follows and Bate (Mill) Jackson and Sons Peace, J. R., and Co. Pronk, Davis (Bronze, &c.) Sanderson, A., and Co.

OINTMENT BASES Chesebrough (Vaseline, Cooper (Veterin, Lard) Evans, Sons (Fossilne) Ewen, J. (Clarified Lard) Grindley (Petroleum Jelly) Stearns and Co. (Saxoline)

OLEATES

Corbyn, Stacey Wyleys and Co.

PAINTE, see OILS

PAPER Schwenkner (Filtering)

PATENT MEDCNS

Atkinson (Infant Preserv)
Barclay and Sons (General)
Barclay and Sons (General)
Barclay and Sons (Gymolys)
Bates (Breast Salve)
Beecham (Pills)
Bennette (Manna Cake)
Bowden (Indian Rem)
British College (Morrson's)
Burgess, E. (Lino (Intimit)
Canby and Co.
Carter (Control of College (Tikheel)
Doric Curetive (Tikheel)
Doric Curetive (Tikheel)
Doric Curetive (Control of Carteria)
Canter Adjuncts)
Ferning's (Powders)
Fernis and Co. (Neponthe)
George and Welch (Liver)
George and Welch (Liver)
Gordon (Prizes offered)
Henry's Indian Rem.
Hoge's Horebound Honey
Holden (Various)
Holloway (Pills and Oint.)
Hop Bitters
Horsbord (Acid Phosphate)
Howard, J. (Pixalene, Zillo)
James, K. (Sore Throat)
Keating (Handbills)
Keating (Handbills)
Kendall (Composition Ess.)
Kitching (Oldon Bitters)
Kitching

HARRICH KORFIERRE KARRICH KARRI

PATENT AGENTS

Horn and Son

PEPSINE, &c. PEPSINE, &c.

Benger's Preparations
Boucault
Bullock and Co.
Burroughs, Wellcome
Gaunt and Janvier (Gldn)
Greenish, T.
Herrings and Co.
Hottot Boudault
Jensen, C. L.
Lorimer and Co.
Rigaud (Peptones)
Savory and Moore (Pancreatic
Emulsion)
Warner and Co. (Ingluviu)
Zimmermann

PEROXIDE OF

HYDROGEN Dunn and Co. Robbins

PERFUMERY.

FANCY SOAPS [See EAU DE COLOGNE.] [See EAU DE COLOGNE,]
Biggleston (Heliotrope)
Chesebrough (Vaselinc)
Crown Perfumery Co.
Fosse, A. F. (for Ponnades)
Greensill (Mona Bouquet)
Lynch and Go. (Norlina, &c.)
Mona Son and Thompson
Norlina
Nicholls (Eucalypt, Vincg.)
Bichards, J. M.
Rimmel, E. (Specialities)
Rowland and Son (Various)
Sainsbury, S. (Lav. Water)
Sanger and Sons
Sanitas
Sharp Bros.

PARALDEHYDE Zimmermann, A. and M.

Sanitas Sharp Bros. Thompson Millard West, T. (Okeil's Mona)

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PHARMACEUTI. CAL PREPARA-TIONS

Allen and Hanburys
Baiss Bros.
Barron, Squire and Co.
Benedict and Co. (Medicated
Grapes)
Benedict and Co. (Iron Pastule)
Browner, Rurbidges Grapes)

Benedict and Co. (Iron Pastule)

Burgoyne, Burhildzes

Burroughs, Wellcome (Various)

Chevalier, F. (Solubles)

Clay, Dod and Co.

Corbyn, Staccy (New Prers.)

Duncan, Flockhart

Evans, Sons and Co.

Ferris and Co. (Ne enthe)

Fletcher (Lars for Syrups)

Gibson, R. (Lozanges)

Greenish, T.

Harker, Stagg (Various)

Hearon, Squire

Heathfield (Liq. Onii)

Herriags and Co. (Ext. Cennab.

Lud. &c.)

The Welt (Liq. Santal Flav.)

Hodgkinser, Hertures

Howards and Seas

Howards and Seas

Howards and Co.

Martindale (Nitroglycerine

Rigand and Dusart

Robbins

Squire (Chemical Food, &c.)

Stearns (Non-secret)

Symes and Co.

Thomas's Tincture of Steel

Whiffen (Extr. Cinch.)

Woolley, Sons

Wyleys (Various)

Woolley, Sons Wyleys (Various)

PHOSPHATES Newton (Acids and Salts)

PHOTOGRAPHIC

Hodgkinson, Prestons

PIG POWDERS

Spong Sturton and Sous

PILL MACHINES

Pindar (Cutter aud Coater) Universal Mixing Machine

PILLS (Coated, &c.)

Allen and Hanburys (Schief-felins)
Cox, A. H., and Co.
Hampson, R.
Newbery
Southall Bros.
Warner, W. R.
Woolley, James, Sons
Wyleys and Co.

PITCH

Peace, J. R., and Co.

PLASTERS

Evans, Sons (ou Felt) Gibbs, Caxson Mather, W. Paterson, A. (Court) St. Dalmas, A. Pe Seabury and Johnson Taylor, E.

PODOPHYLLIN, &c. Keith, B., and Co. Smith. T. and H.

PORCELAIN GDS.

Bentley (Opal Glass) Breffit's De Luca Poths, H. and Co. Toogood (C.:. Pots, regist) Wedgwood, J. (Pestles, &c.)

POLISHING

POLISHING
Baumgartner (La Brillantine)
Bradley, Bourdas (Albatum)
Brown (Satin Polish)
Cubley and Preston
Deed and Sons (Hauthaway's)
Guest, Wm., and Sons
Lewis, D. J. (Electric)
Oakey, John, and Sons
Pickering and Sons
Schulz, Fr. (Metal Pomade)

[See TINCTURE.]
Follows and Bate (Compound Action)

PRINTING

Ford, Shapland King, W. R. Rose, J. Townsend (Exeter) Zuccato (Trypograph)

PHMP

Fordham (Petroleum)

QUININE SALTS

Howards and Sons Rigaud and Dusart Whiffen, T.

Clements, S. G., and Co. McMaster, Hodgson Meyer and Henckel

SALICINE.

Macfarlan and Co. Whiffen, T.

SALINES

Evans, Sons and Co. Lorimer & Co.

SALT

Hassall, Thos. (Bay) Southall Bros. (Aquarium)

SANTONINE

Bieber, J. D.

SAUCES Boston (Household) Goodali (Yorkshre Relish) Lazenby (Harvey's)

SCHOOLS OF PHARMACY, &c.

Central School
Edinburgh Classes
Liverpool School
London Homeopathic
Manchester College
South London School
The School of Pharmacy Westminster College

SEIDLITZ PWDRS.

Chubb, J., and Co. Howards and Sons Southall Bros. Stedman

SELTZOGENES

THE CHARLES A. VOGELER CO.

British Syphon Mfg Co. Fevre Gueret Frères
Idris Manufacturiug Co.
Paquet, F. (New Apparatus)
Southall Bros (Powders)

SHAVING

Hovenden (Euxesis) Lloyd, A. S. (Euxesis)

SHOP FITTERS

Bowling and Govier Bygrave, J. and W. Curtis. J., and Son Howlett, S. Lemaitre, W., and Co. Lynch & Co. Maw, S., and Co. Yates, W. S.

SOAP (SOFT, &c.)

Brecknell (Skin)
Chiswick Soap Co.
Churchill (Ammonia)
Fordham, W. B. (Crystal)
Thorogood (Saddle)

SPECTACLES

Darton, F., and Co.

SPIRIT, PURE AND METHYLATED

Burrough (Pure & Methyl.). Harvey, J. W., and Co. Jones and Mason (Methyl.) Magnair, A. (Pure) Phillips, G., and Co. (Pure)

STAMPS

City Rubber Stamp Co. Baddeley (Metal and Rbbr.) Fleming & Co.

SPONGE

Crcsswell Kent, G. B., and Sons Kiriacos Moorc, A. F. and II. Peterson, M.

STABOR

Critchley (Gloss) Harrop's Glaze

STILL

Brinjes and Goodwin

STOPPERS

Brooks, Pcel (Sprinklers)

STRYCHNINE

Whiffen, T.

SUGAR

Gibson. R. Gibner, Morton

SULPHUR, &c.

Forster and Gregory Peace, J. R., and Co. Scott and Co.

SURGICAL
Bailey, W. H., and Son
Eschmann Bros. (Catheters)
Gibbs, Cuxson (Dressings)
Haywood, J. S.
Krohne and Sesemann
Lindsey
Lynch and Co.
Maw, Son and Thompson
Scott, W. A. (Instruts, etc.)
Seabury and Johnson (Tissues)
Southall Brothers (Dressings)
Thompson, Millard
Wyleys and Co. (Dressings)

SYPHONS

Barnett and Foster British Syphon Co. Gueret Fières Idris Manufacturing Co. Kilner Bros. Lang, J. and J. Melin, C.

SYRUPS

Fletcher Fletcher (Liquors) Lorimer and Co. Sanger and Sons Squire (Chemical Food)

TEA

Kangra Valley (Indian) Walker and Dalrymple

THERMOMETERS

Darton, F., and Co.

TINCTURE PRESS

Follows and Bate

TIN FOIL

Betts and Co.

TOBACCO

Corry, Soper (Agricultural) Follows and Bate (Cutter)

TRADE MARKS REGISTERED

Breffit's Horn and Son

TRANSLATIONS

Lond. Internat. Agency

TRUSSES

Bailey, W. H., and Son Bourjeaurd Colwell Colwell
Haywood, J. H.
Lindsey
Lynch and Co.
Maw, Son & Thompson
Philadelphia Truss
Scott W. A.
Sceley (Hard Rubber)

TWINE

Moore, A. F. & H.

URINARY TESTS

Wilson (Papers)

VACUUM PANS

Brinjes and Goodwin

VALUERS AND TRNSFR. AGNTS.

Brett, F. J. Orridge and Co. Tomlinson, Thomas Trippier Waite, Thos. II.

VARNISHES

Jackson, T. S., and Son Pronk, Davis and Co. Sanderson, A., and Co. Williams, Miles

VALERIANATES

Forster and Gregory Typke and King

VETERINARY

Cheesbrough (Vaseline, &c.)
Cole, Richard (Ossidine)
Cooper (Lard)
Day, Son and Hewitt
Green, F., & Co. (Spices, &c.)
James, R. J. (Blister)
James, R. S. (Blister)
Spratts (Dogs)
Sutton, F. (Condition Drenches)
Taylor, Thomas

VERMIN KILLERS

Barber (Paste) Battle, J. B. Hunter Sanford and Son Steiner and Co.

VINEGAR

Rothermel (Making)

VIOLET PWDR, &c. See FACE PWDR

WATERS, DIST.&c.

Butler, McCulloch and Co. Raynaud (Rose & Orange Flwr.) Robinson. B. (Concentrated) Wyleys and Co. (Concentrated)

Waterston, G., & Sons (Sing) Woolley, Jas., & Co. (Bccs)

WHLESLE & EXPT DRGGSTS

DRGGSTS
Allen and Hanburys
Baiss Brothers and Co.
Barron, Squire and Co.
Bustin, McGresor
Bieber, J. D. (Hamburg)
Burgoyne, Burbidges
Clay, Dod and Co.
Clements, S. G., and Co.
Corbyn, Stacey and Co.
Duncan, Flockhart
Evans, Gadd
Evans, Lescher and Webb
Evans, Sons and Co.
Evans, Sons, and Mason
Harker, Starg and Moss
Herring, Squire
Herring, Squire
Letting, Co.
Hewlett, C. J., and Sons
Hodgkinson, Prestons
Kempthorne, Prosser
Lennon, B. G., and Co.
Lorimer & Co.
Potter and Clarke (American, &c.)
Stearn's, Non-secret &c.)
Stearn's, Non-secret
Symes and Co.
Woolley, Jas., Sons and Co.
Wyleys and Co.

WINES AND SPTS.

Goodall (Qninine) Hirst, Brooke (Quinine) Lamb aud Watt Robinsou, B. (Orange)

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THE KREOCHYLE CO.

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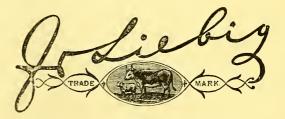
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Dear Sir,-I beg to enclose cheque, value ---, in settlement of your account, for valuation, &c., and sball be glad to have your receipt for

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Yours faithfully,
FRANK S. GOODWIN.

Mr. Thomas Tomlinson, 41 Corporation Street, Manchester.

15 Acres Field, Bolton, July 3, 1884. J. H. Clegg, Solicitor.

Dear Sirs,—Re John Cnnliffe, chemist, deceased, I have received your letter of 30th ult., and beg to enclose Mrs. Cunliffe's cheque for —, amount due to yon for valuing, &c., and disposing of stock-in-trade of deceased. I have much pleasure in expressing, on behalf of my client, the exeentrix, ber satisfaction with your painstaking valuation and your attention in conducting the negotiations eventually resulting in a sale of the stock, &c., and, so far as I am concerned, I am happy to concur in that expression of satisfaction.

Yours truly, J. H, CLEGG.

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THROAT LOZENGES.

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Adults should take one Lozenge from time to time as occasion may require, allowing it to dissolve slowly in the mouth. Children will find half a Lozenge sufficient.

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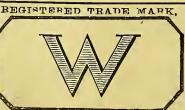
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Are manufactured of the same kind of ingredients as those sanctioned and ordered by Dr. Andrew Smith, Director-General of Her Majesty's Army and Navy Ordnance Medical Department, for the use of the Soldiers and Marines in Scutari Hospital.

LEATHER PLAISTERS.	No.	Full Size of Leathers.	Retail Prices.	Per doz.	Royal Balsamic Plaister.	Cod Liver Oil.	Plain Plaister.	Emp. Roborans or Calefaciens	Emp. Bella- donna. No. 1.	Emp. Bella- donna. No. 2.
Heart Shape	1 2 3 3 ¹ / ₂ 4 5	Inches. $3 \times 4\frac{1}{2}$ $4\frac{1}{4} \times 6$ $4\frac{1}{2} \times 7\frac{1}{2}$ $5\frac{1}{2} \times 7\frac{3}{4}$ $6\frac{1}{2} \times 8\frac{1}{2}$ $8 \times 9\frac{3}{4}$	d. 1 size. 1½ ,, 2 ,, 3 ,, 4 ,, 6 ,,	27 27 27 27 27	s. d. 0 8 1 0 1 6 2 3 3 0 4 6	s. d. 0 8 1 0 1 6 2 3 3 0 4 6	s. d. 0 8 1 0 1 4 2 0 2 8 4 0	s. d. 0 8 1 0 1 4 2 0 2 8 4 0	s. d. 1 4 2 0 2 8 4 0 5 4 8 0	s. d. 1 0 1 6 2 0 3 0 4 0 6 0
Long Shape	$ \begin{array}{c} 1 \\ 2 \\ 2\frac{1}{2} \\ 3 \\ 4 \\ 5 \end{array} $	$\begin{array}{c} 2\frac{3}{4} \times 4 \\ 4\frac{1}{4} \times 6\frac{3}{4} \\ 4\frac{1}{4} \times 8\frac{1}{4} \\ 5\frac{1}{4} \times 9\frac{1}{4} \\ 6\frac{1}{2} \times 11 \\ 7\frac{1}{2} \times 14\frac{1}{2} \end{array}$	1 " 2 " 3 " 4 " 6 " 8 " "))))))))))	0 8 1 6 2 3 3 0 4 6 6 8	0 8 1 6 2 3 3 0 4 6 6 8	0 8 1 4 2 0 2 8 4 0 6 0	0 8 1 4 2 0 2 8 4 0 6 0	1 4 2 8 4 0 5 4 8 0 12 0	1 0 2 0 3 0 4 0 6 0 8 0
Oval Shape	1 2 3	$\begin{array}{ccc} 4\frac{1}{4} \times & 6\frac{1}{2} \\ 6\frac{1}{4} \times & 8\frac{1}{2} \\ 7\frac{3}{4} \times & 9\frac{3}{4} \end{array}$	2 ,, 4 ,, 6 ,,	,, ,,	1 6 3 0 4 6	1 6 3 0 4 6	1 4 2 8 4 0	1 4 2 8 4 0	2 8 5 4 8 0	2 0 4 0 6 0
Saddle Shape	1 2 3	6¼×12¼ 7×15 8×16	6 ,, 8 ,, 12 ,,	"	4 6- 6 8 8 8	4 6 6 8 8 8	4 0 6 0 8 0	4 0 6 0 8 0	8 0 12 0 15 6	6 0 8 0 12 0
Wrist WRIST PLASTER	1	3 × 101/4	3 "	,,	2 3	2 3	2 0	2 0	•••	
H KNEE PLAISTER	2	4½ × 15	6 "	"	4 6	4 6	4 0	4 0		

BREAST PLAISTERS.	No.	Size of Leather	Retail Prices.	Per doz.		
Emp. Plumbi, for Ladies' Breasts Emp. Plumbi, for Ladies' Breasts ditto spread on Chamois ditto ditto ditto	1 2 1 2	Diam. 6\frac{5}{4} in. ,, 7\frac{1}{2}, ,, 6\frac{5}{4}, ,, 7\frac{1}{2}, ,	d. 4 size 6 ,,	s. d. 2 8 4 0 4 0 6 0		
BREAST PLAISTERS.		Size of Leather	No. 1 Quality. I'er doz.	No. 2 Quality. Per doz.		
Emp. Belladonna, for Ladies' Breasts ditto ditto spread on Chamois ditto ditto		Liam. 63 in. ,, 7½ ,, 63 ,, 7½ ,, 7½ ,,	s. d. 5 4 8 0 8 0 12 0	s. d. 4 0 6 0 6 0 9 0		

HOSPITAL PLAISTER, on Black Cloth, 16 in. wide, doz. yds. 8/0 on White "

Every other description of Plaister used in Pharmacy or Private Formulæ spread on any material, to suit any climate.

PLAISTERS, SPREAD.-Prices per Dozen Yards.

16 Inches in width.										
NAME	Glazed Cloth	Unglazed Cloth	Linen	Swans- down	Mole- skin	Skins of Leather				
kmp Aohæsivum Opt	4/0	5/6	12/0	12/0	21/0	4/0				
" Adhæsivum		••	••			• •				
" Ammon c. Hydrarg	16/0	••	••	30/0	36/0	5/6				
" Antim. Pot. Tart		.:	-21.	24/0	30/0	4/0				
" Belladonna	18/0	20/0	27/0	27/0	36/0	5/6				
" Calefaciens	11/0	12/0	15/0	15/0	24/0	4/6				
" Cerat Saponis		9/0	14/0	14/0	24/0	4/6				
" Dreadnought	9/0	10/0	14/0	14/0	24/0	4/6				
" Elemi		10/0	14/0	14/0	24/0	4/6				
" Ferri	9/0	10/0	14/0	14/0	24/0	4/6				
,, Galbani	14/0	- : : .	***	24/0	30/0	4/6				
" Hydrarg	14/0	15/0	18/0	18/0	27/0	4/6				
" Iodine			0710	30/0	36/0	5/6				
" Opii	18/0	20/0	27/0	27/0	36/0	5/6				
" Picis Co		12/0	15/0	15/0	24/0	4/6				
" Plumbi	5/6	6/6	12/0	12/0	21/0	4/0				
,, Potass. Iodid			1.:0	30/0	36/0	5/6				
" Resinæ	5/6	6/6	12/0	12/0	21/0	4/0				
" Roborans	6/0	7/0	12/0	12/0	21/0	4/0				
", Saponis Alb	5/6	6/6	12/0	12/0	21/0	4/0				

MANUFACTURED BY W. MATHER,

DYER STREET, HULME, MANCHESTER, ENGLAND.

PRICE LISTS

SENT

APPLICATION. 017

London Wholesale and Export Agents: Messrs. MACE & HALDANE, 77 Milton Street, London, E.C.

MAY, ROBERTS & CO.,

9 CLERKENWELL ROAD, LONDON

(Three Minutes' Walk from Aldersgate Street Station).

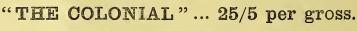
CATALOGUE of Druggists' Sundries, Patent Medicines, &c., sent post free on application.



FEEDING BOTTLES,

Green Glass Bottles, Boxwood-topped Corks, with Best White Rubber Fittings.

"THE POPULAR" ... 23/5 per gross.
Packed in One-gross Casks (Cask free).

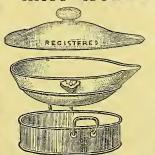


Packed in One-gross Casks (Cask free).



The above, with White Glass Bottles, 2/- per gross extra. If with Black Rubber Fittings, 4/- per gross extra.

"MAY-ROBERTS" WATER BATH. REGISTERED.



This Water Bath will supply a long felt want amongst Chemists and Perfumers, where small quantities of materials have to be dealt with.

The old form of Water Bath necessitates the use of a second vessel for pouring the melted Pomade, Cream, or other substance into the bottles or jars in which they are sold. In the "MAY-ROBERTS" Water Bath the earthenware bowl can be lifted out of the tin containing the boiling water, the process of cooling being thereby very much expedited, and the contents can be poured into the bottles or jars direct from the bowl. The Bath is also supplied with an earthenware cover. 5-pint, 5/6 each.

HIGGINSON'S ENEMAS.



BEST Quality Rubber—Green, Black, or White—complete with Vagina Pipe and Shield per dozen 26/3

Ditto, Disconnecting ...

SECOND Quality—Grey Rubber—complete with Vagina Pipe and Shield ... per dozen 18/6

5% discount on £5 worth, with or without other " Sundries."

NO TRAVELLERS EMPLOYED. Buyers are therefore spared their expenses.

EXCHANGE COLUMN.

Terms.—Announcements are inserted in this column at the rate of one halfpenny per word, on condition that name and address are added. Name and address to be paid for. Price in figures counts as one word.

If name and address are not included, one penny per word must be paid. A number will then be attached to the Advertisement by the Publisher of The Chemist and Druggist, and all correspondence relating to it must be addressed to the "Publisher of The Chemist and Druggist, Colonial Buildings, Cannon Street, London, E.C.," the envelope to be endorsed also with the number. The Publisher will transmit the correspondence to the advertiser, and with that his share in the transaction will cease.

Dental and Surgical.

Five Oxford silk suspenders, retail, 6s; 2 ditto, 5s.; 1 large silk suspender, retail, 4s. 6d.; 1 ditto, 7s. 6d.; good as new, at half prices. W. Laidlaw, Denny, N.B.

Drugs and Chamicals.

- 2 lbs. potassii iodid., 18s. 6d., or excharge. J. Calow, Lingdale in Cleveland.
- Four gross 4-oz. Cologues, elean; package ineluded, 10s. per gross. Harvey, Margate.
- 23 lbs. potass, iodide; 1 lb. ol. cubebs opt.; offers. 242/23.
- 10 lbs. P. aloes Socot., 11.; 5 lbs. pale petroleum jelly, 2s. 6d.; other drugs equally cheap; send for sample and list. Harvey, Margate.
- Howard's pot. iodid., 14 lbs. for sale, in one or more lots; offers wanted. Smith, 5 High Street, Newport, Mon.
- 4 Wins. of ess. limonis; 6 bottles of otto rose virg.; 1 tin of ol. origani; 1 tin of ol. pulegii; 14 lb. opinm, Turkey; 4 oz. Moschus tonquin, grain; cheap. Address (private) A. Jones, 21 Piercefield Street, Haverstock Hill, N.W.

Optical.

Entire stock of spectacles; giving up agency; cost 26%; want stoppered shop rounds, tooth instruments, Cowley's "Encyclopædia," or eash, 15%; what offers? 16/18.

Proprietary Articles.

Myers' Royal eattle spice, fresh, in good coudition; what offers? 12/37.

4 doz. 1s. Fox's palatable cod-liver oil, at 7s. 3d. per doz.; 8 doz. 2s. ditto, at 14s. 6d.; 3\frac{1}{2} doz. 1s. Fox's castor oil, at 7s. 3d., all fresh and clean. 22/10.

Apparatus.

One 15-gallon enamelled-iron pan; 1 8-gallon ditto, with gas fittings, Wiggin, Ipswich.

Bell-metal mortar and pestle; weight 21½ lbs.; offers. Jones, Chemist, Treherbert.

Machine for mixing powders for sale. Battersea Bieyele Works, next Queeu's Road Station, Battersea, S.W.

Nitrous oxide gas apparatus, consisting of 50-gallon bottle and key, in portable leather case, "Cattlin" bag, Clover's facepiece, two-way stopeoek, "quieter," &c., quite new; all rubber parts extra quality; cost 61.7s.; price 51. A. Bolton, St. Albans.

Educational.

The questions given to a sneeessful Minor candidate at the December examinations. Send 12 stamps to "Chemist," 14 Hedon Road, Drypool, Hull.

Set of illegible autograph prescriptions (original), 2s. 6d., as presented to the Pharmaceutical Society of Ireland for their examinations; 30 prescriptions (catch and difficult) given to dispense at Minor during past 12 months, 2s.; 50 questions asked of successful students at last Minor, 1s. 1d.; lot of cheap, almost new, books; stamp for list. Saunders, Medical Tutor, 6 Rochester Square, N.W. (Note change of residence.)

Wills's "Materia Medica," 4s.; Wills's "Pharmaey," 3s.; Handsell Griffith's "Pharmaey," 2s.; Smith's "Latin Dictiouary," 2s. 6d.; Oliver's "Botany," 2s.; Hooker's "Botany," 6d.; "Cæsar Made Easy," 9d., Jodd's works, viz.—"Exercises in Equations," 1s.; "Exercises in Medical Latin," 1s. 6d.; "Botany," 6d.; "Tinctures," 6d.; "Ointments," 6d.; "Plysies," 6d.; "Analysis," 6d. A. P. S., 13 Gladstone Avenue, Nocl Park, Wood Green, N.

Literature.

- The Chemist and Druggist, first 10 years, in good condition, for 20s., or offers. 15/15.
- Pharmaceutical Journals, loose, clean, from 73 to 84; whole or part, very cheap. C., 1 Austwick Terrace, Exeter.
- "Wills," 5s.; "Materia Medica," cabinet as received, 3s. Carruthers, Fitzroy Street, Cambridge.
- Headland's "Action of Medicine;" Pereira's
 "Materia Medica;" "Questions on Huxley's
 Physiology," for scales (see Messrs, Evans's
 (Liverpool) List, fig. 153), and other articles.
 Dispensary, Syston, Leicestershire.

Soda-water Plant.

- Barnett & Foster have some second-hand sodawater machinery of their own for sale. Apply, 26r Eagle Wharf Road, Hoxton, N.
- Second-hand soda-water plant—several in stock.

 Address, Bratby & Hinchliffe, Sandford
 Street, Ancoats, Manchester.
- Barrett & Eley tube-filling machine; secondhand; good working order; with syrup pump, 61.10s. N. G. Wilcocks, Bath.
- Soda-water, lemonade, ginger-beer machine; secoud-hand; with gaswork; two racks; 400 doz. daily; 14 cwt.; with recipes, &c., 25t. Particulars, N. G. Wilcocks, Bath.
- Soda-water Plant.—Barnett & Foster, fig. 2, No. 4, together with gasometer and generator, very little used; also bottling-post, with syrup-pump (Rose's), syphon-filter (Barnett & Foster), original cost, 73l., price complete, 40l., or separate. Benjamin Baker & Co., Jersey.

2½-in. double-pump machine, fly-wheel, fast and loose pulleys, iron frame, forged crauk, solution pan, cylinder on stand, guages agitator, large copper gasholder, oak tub, and lead generator, to produce 2,000 doz. per day; also a cork rack; ditto patents; second-hand; good working order; Bramah principle; sale price, 40l.; worth double. Particulars, N. G. Wilcocks, Bath.

Shop Fittings.

- Show-bottles, specie-jars, shop-jars (all sizes and colours), lamps, store-bottles, glazed cases. 21 Broadway, Deptford.
- Cheap.—A large show jar and 4 pear-shaped earboys; also quantity of labelled bottles, jars, and boxes. 20/22.
- Second-hand Fittings.—About 25-foot druggist wall-fittings, 12-foot wall-case, window enclosure, dispensing-screen, desk and case, cigar case, four carboys, two specie jars and stands, drug-scales, 14 dozen bottles and pots; 381. Hawke & Son, London.
- Second-hand Glass, &c.—Two specie jars, arms, covers, 21 in., and stands, 3l.; 4 specie jars, serolls, covers, 28½ in. bigh, and plintbs, 30s. each; three 3-gal. earboys, and one 2-gal., flat front, and stands, 27s. 6d.; two 3-gal. eylinders, 10s.; 15 1-lb. blue pots, and 55 stoppered rounds, no labels, 38s. Hawke & Son, London.
- Pair specie jars, 32 iu. high, as fig. 1 and 2 Maw's; quantity smaller sizes; 50 pear-shape and cylinder show bottles; 4, 8, 20, 30, 40, 60 oz gold-labelled, stoppered shop bottles; quantity blue and olive ointment and extract jars, all sizes up to 41b.; 120 engraved acid bottles; blue syrup and oil bottles; 650 graduated elamped glass measures, all sizes; glass percolators; composition mortars and funnels, all sizes; pill machines; tinetures; presses, &c. Lloyd Rayner, 46 De Beauvoir Cresceut, Kingsland, London, E.
- Second-hand Fittings,-Plate-glass counter-case 43 in. long, 16 in. wide, trays, 21.; mahogany wall-case, three bent plate-glass flaps, silver and plate ends, glass drawers, 73§ in. long, 21 in. deep, 194 in. higb, 71. 10s.; counter-case, as Maw's A 4, 42 in. long, 25 in. wide, 23 in. high, no earving, 61.; mahogany wall glass-eases, lower compartment with open shelving pilasters, 1323 in. long, 100 in. high, 81.; mahogany window-enclosure, ornamental glass; plateglass facia, black - ground, embossed "Pharmaceutical Chemist," 1461 in. by 14 in., 31. 10s.; 13 plate-glass shelves, polished edges, various lengths and widths, 2s. each; 2 ditto, 68 in. by 6 in., and 6 brackets, 15s.; 2 counter gas-pillars, 15s.; 5 window do., 12s. 6d. Hawke & Son, Wild Court, Great Wild Street, London.

The entire fittings of several handsome chemists' shops, will be made to fit any sized shop; this is a favourable opportunity of having a superior shop fitted equal to new at about half the usual cost, and easy mode of payments, if required. Gentlemen requiring alterations or refitting will be waited upon by Lloyd Rayner, Shop Fitter, 46 De Beauvoir Cresceut, Kingsland, London, N., and Leytonstone, E.

Counter cases, designs figs. A 1, 3, 4, 5, 6, 8, 9, 10, 13, 17, 18 Maw's; cases with and without desks, A31, 32; cigar cases, A34, 35; sponge cases, A41, 42, 43; show stands, A38, 40; dispensing counter cases, A54, 55, 55; dispensing screens, with mirror centre and marble slab, case at each end, 5 ft., 6 ft., 7 ft., 8 ft., 3 ft., 4 ft., 5 ft., 6 ft., 8 ft., 10 ft., and 12 ft. long; nests gold-labelled shop drawers, with and without lockers under, and shelving with cornice above; quantity handsome wall cases, all sizes; quantity retail and dispensing counters, all sizes; plate-glass case-fronted counters; quantity shop lamps and brackets, &c. Lloyd Rayner, 46 De Beauvoir Crescent, Kingsland, London,

Formulæ,

- "Butteriue;" purifying lard; condensed milk; essence rennet; price 5s. Garforth, Sheffield.
- Neuralgic Pills,—A well-tried, reliable formula for the above; very successful in facial neuralgia; sent, post_free, for 2s. 22/7.
- "Putz Pomade," working recipe for universal metal cleaning pomatum, by a practical m ker. Stamped envelope for terms, &c., to K. M., care of Mr. B. Wilson, 45 Darley Street, Bradford.

Fragrant foaming dentifrice (llke "Floriliue"); marking ink, sine silver (anillne), writing executed defles chemicals; effervescing fruit saline (resembles Eno's); magic neuralgic drops (never-failing remedy); quinine and iron tonic (resembles Pepper's); limejuice and glycerine (inseparable, white as milk); blue-black ink (non-corrosive, sine iron or galls); cherry tooth paste (never ferments, like Gosnel's); brilliantine (inseparable, like Rimmel's; pill - coating, (pearly white, no mucilage or mastic used); glycerine jelly (perfectly transparent); crimson marking ink; hair-restorer (colourless, no deposit, sine silver); aromatic vinegar ; toilet vinegar (as Rimmel's) ; platepowder (like Stevens' "Silicon"); Oleum Flavum Conc., for pomades stable); soluble essence ginger (like Hay's); corn solvent, clear (not acid); liquor copaibæ comp. c. buchu et matico (mixes clear with water); gonorrhœa paste, excellent (Dr. Ricord's); taraxacum and podophyllin (resembles Pepper's); with many others; send stamp for list, stating wants. The toilet preparations are identical with those prepared by a wholes ile West-end firm; others equally good; all inexpensive to make; 5s. each (five for 11.). Readers are cautioned against cheap and worthless imitations. I was first to advertise formulæ in this journal. "Analyst," care of Mr. Warnes, 6 Rochester Square, N.W. (Note change of address.)

Reliable Recipes, wanted daily, all guaranteed genuine, as supplied to over 1,000 chemists at home and abroad; particulars of any on application; detailed list of 280, post free. Note my advertisements these last four years in this Journal. "Satisfaction guaranteed." All communicatious are strictly confidential or I could give over 500 testimonials .-"Entirely New Toothache Remedy;" "Nigerine," patent blacking, like Nnbian;
"Digestive Relish," best sauce in creation;
"Lupuline Bitters;" "Limes and Glycerine," inseparable chemical combination; "Foaming Dentifrice," like Floriline; "Red Rose Lotiou" (resembles Sulpholine); "Rheumatic Embrocation," capital, only 7d. lb.; "Tonic Hair Lotion," non-oily; " Blood-purifying Powder" for the million; "Coraline Tooth Paste," keeps well; "White Rose Tooth Powder;" "Bloom of Camella," splendid face powders; "Anti-spasmodic Elixir," cures quickly; "Antiseptic Curative Ointment," better than Holloway's; "Tonic Syrup" (quinine, iron, and phosphorus); "Camomile and Quinioe Pills" preferred to Norton's; "Effervescent Saline," like Eno's, keeps well; "Cryptzymosis," positive cure for gleet; "Argenta" plate powder, excellent; "Campholyde," external cure for neuralgia; "Cantharadine Pomade," certaiu hair producer; "Cold Cream," best form extant; "Eau de Cologne," equals Farina's;" "Embrocatio Alb.," facsimile of Eilemau's; "Furniture Gloss," lustrous and durable; "Glucotin," like Coaguline; "Hair Cleaner," 3d. packets, profitable; "Hair-restorer," like Allen's; "Liver Pills" (Podophyllin), cannot be surpassed in efficacy; "Lavender Water," splendid; "Occasional Pills," preferred to Widow Welsh's; "Pill Coating," lustrous pearly-white; "Soothing Syrup aud Powders," for children; "Essence for Deafness," safe and certain; "Cough Syrup," like Kay's Essence; "Quinine and Iron Tonic," equals Pepper's; "Worm Syrup," purely vegetable; "Mist. Gonorrhœa" (capivi), radical cure; "Glycerine Linctus," for coughs; "Spermatorrhea Remedy," never fails. Recipes 1s. 1d. each, 6 for 5s., 25 for 11., with full instructions, post free. T. Brooks, Chemist, Louth, Lincolnshire.

Miscellaneous.

- Large number of lantern slides for sale. Apply Piggott, Chemist, Huddersfield.
- For sale, cheap, or exchange, 40 bottles Carlsbad Muhlbrunn water; fresh and clean. Harrington, Middlesborough.
- Large van, recently new, built for aërated-water trade, 19 cwt.; engraving free; second-hand; good condition; cheap. N. G. Wilcocks, Bath.
- Iodine, 10d. oz.; resublimed, 11d.; potass. iodid., Atkinson's, 10s. 6d. lb.; jujube case, A & H., equal to new; offer wanted. Thornley, Chemist, Manchester.
- Pill machines, 24 and 30, each 5 grains, price 7s. and 8s. respectively, scarcely used; also valuable books on the venereal disease, cheap. Halford, Chemist, New John Street, Birmingham.

- Six Wright and Butler's petroleum stoves, in good order, cheap; a few c'ean patents; second-hand microscope, in mahogany case, 12 in. high, with lock and key, suit student, cost at least 5l., price 42. Particulars of Walters, 21 Rectory Road, Burnley.
- A Pamphengos lantern, marvellous oil-light, equals the limelight, with four-inch coudensers, only 44. 4s.; a three-wick triplexicon, 3½, 2l. 2s.—bargains; a quantity of slides, photograph, mechanical, from 1s. each. For particulars to W. H., 82 Mortimer Road, Kingslaud Road, London, N.
- Surplus Stock.—Dental forceps, 4s. and 4s. 6d. pair; set 14 stopping instruments, including mirror, ivory handles, 18s. 6d.; another, 6, 7s.; composition mortar and pestle, No. 12, 11s.; quart iron mortar, 2s. 3d.; pill machine, mahogany, 5 grain, 24, nearly new, 16s.; finisher, 6d; Maw's dispensing scales, new, nickel pans, cost 18s.; 15s.; powder folder, 1s. 3d. Campkin, Chemst, Cambridge.

WANTED.

- Shop rounds, various; cheap. Batch, Ramsgate.
- A large compo mortar, No. 12 or larger; cheap. Jones, Chemist, Treherbert.
- Chemists' and Druggists' Diary for 1883; also Piesse's "Art of Perfumery." 17/37.
- Drugs, patents, sheep-dip; &c. Patterson, Barnard Castle.
- Works wanted on "Glyceriue." H., 5 Wymering Terrace, Lavender Hill, London, S.W.
- Postage stamps.—Advertiser will purchase a good collection. H. R., 18 Villa Road, Handsworth, Birmingham.
- 14 lbs. iodide potassium. Will give Allcock's plasters, or other patents in exchange. Offers to E. E. J., 25 St. Mark's Street, Woodhouse Lane, Leeds.
- Pereira's "Materia Medica," by Bentley aud Redwood; and Proctor's "Practical Pharmacy," last editious, must be in good conditiou; state prices, &c. C. J. Bennett, Chemist, Widnes.
- Second-hand, modern upright and counter show cases; superior nests shop drawers; pearshape show globes; for cash, or in exchange for druggists' sundries. Simcock, Guildford Street, Leeds.
- Wanted, a Paul Pfleiderer's mixing machine, for 4 in. to 6 in. pill mass; must be in good working order; state if bronze or iron, lowest cash price, letters and number of machine. Heald, Buruham, Bucks.
- Genuine recipes for medical and toilet preparations and hair dyes, must stand test; also copy of Erasmus Wilson's work (or any other work) on the hair; also cean copy of this Journal, posted 14 days after each publication. Address, "Drysalter," 304 High Street, Waitford.

Information Wanted.]

3!. given, on approval, for information how to alloy cadminm metal with German silver, to be commercially and chemically successful. Address, O. Thiel, Acock's Green, near Birmingham.

Advertisements of Employers Wanting Assistants, Partnerships, Sales by Auction, Shops to Let, Businesses for Disposal, Businesses Wanted, &c., for 60 words or less, 4s. 6d.; 6d. for every additional 10 words. Assistants Wanting Situations, for 12 words or less, 1s.; 6d. for every 6 words or less in addition.

1884.

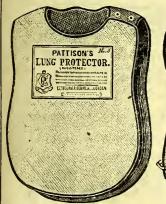
EIGHTEENTH SEASON.

THE

ROTECTOR LUNG

"An Article of Acknowledged Excellence."

The "LUNG PROTECTOR" continues to be made only from the same Fine Soft Wool which has always been used since its introduction 18 years ago. Chemists are cautioned against the mendacious assertions of unscrupulous persons who push upon them coarse and inferior imitations, the sale of which can only lead to ultimate loss of trade.









THE LUNG PROTECTOR. ORIGINAL PATTERN.

LUNG PROTECTOR. LUNG PROTECTOR. THE AMERICAN.

THE CANADIAN.

CHEST PROTECTOR

PRICES:

			No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	
Original Pattern, Seven sizes	•••	•••	14/-	18/-	26/-	34/-	42/-	52/-	60/- p	er doz.
The American, Six sizes		***	•••	20/-	28/-	36/-	44-	54/-	62/-	"
The Canadian, Six sizes		•••	•••	22/-	30/-	40/-	50/-	60/-	70/-	,,

10/-12/-16/-24/- per dos. All in Scarlet and White, and made in same Wool as the "Lung Protector."

Terms: All Wholesale Houses either allow a large Discount for Cash, or quote the goods at Reduced Net Cash prices.

FELT CHEST PROTECTORS, C QUALITY, single and double, each in five sizes. At lower prices than above, and equal to BEST of other makers, but are not recommended.

GEORGE PATTISON,

ST. JOHN STREET ROAD, LONDON, E.C.

TRADE MARKS AND BULL'S HEAD.

STEWARI

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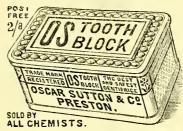
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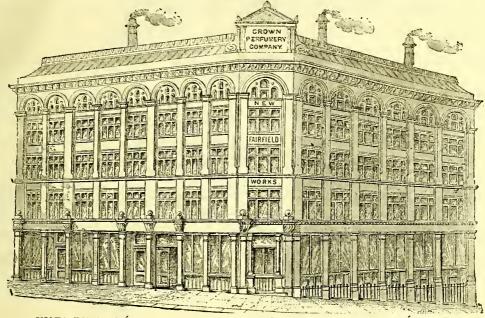
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PASTA PARA LOS DIENTES "CROWN," el mejor dentifrico, indispensabe al tocador, \$2 00, \$3 00, y \$5 00 la docena.

PASTA DE CEREZA PARA LOS DIENTES, \$1 00, \$2 00 la docena.

OPALINA "CROWN," \$2 00 la docena.

LOS JABONES "CROWN 'se hacen de logredientes absolutamente puros,

LOS JABONES "CROWN" se hacen de ingredientes absolutamente puros, son ricamente perfumados. WINDSOR MORENO, MIEL, ALMENDRA, FLOR DE SAUCO, HARCNA DE AVENA, CURD, GLICERINA Y ALMENDRA, ROSA.

LOS JABONES CROWN PERFUMADOS. MIEL, WINDSOR MORENO, Y GLICERINA en cart-nes de fantasia de 3 ó 4 pastillas, \$1.00, \$2.00, \$3.00, \$4.00 \$6.00 la docena.

En barras, \$1.00, \$2.10 la docena.

Y en cajas de madera de 7 lbs. (ing.) \$14.00, \$16.00, \$18.50, \$21.00 el quintai.

LOS JABONES TRASPAKENTES "CROWN" MIEL, WINDSOR MORENO Y GLICERINA,
En cartones de fantaia de 3 ó 4 pastillas, \$2.00, \$3.00 la docena.

En barras, \$1.00, \$1.00 la docena.

En barras, \$1900. \$100 la docena.

Yen cajas de maderada 7 lba, \$1850 y \$2100 el quintal.

BOLAS TRASPARENTES "CROWN" \$100, \$150, \$200 la docena.

PALILLOS TRASPARENTES "CROWN" PARA AFEITAR, \$100, \$2.00 la docena.

JABONES "CROWN" ANTIGUO WINDSOR MORENO,

JABONES "CROWN" ANTH-TO WINDSHE MORENO,
En cartones, \$1:50, \$2:00, \$3:00, \$4:00 la docena.
En paquetes, \$0:87, \$1:12, \$1:37, \$1:72 la docena.
En barras, \$1:00, \$2:40 la docena.
WINDSOR MORENO DE ALMIZCLE "CROWN," paquetes, \$2:50;
cartones, \$3:00 la docena.

JABON DE LECHUGA "CROWN," \$2:00 por docena de pastillas.

JABON DE LAVÁNDULA "CROWN," cartones \$2.00 y \$5.00 la docena de caias.

JABON PARA NINOS "CROWN," cartones, \$3:10 la doc de cajas.

JABON DE GLIGKRINA Y BREA, cartones, \$2:12 la doc. de cajas.

JABON DE BREA DE CARBON "CROWN," envuelto en papel de estaño,

\$6.75 la gruesa de pastillas ó \$21 el quintal. Uno de los mejores desinfectantes y una necessidad en los climas cátidos.

JABON P RO CARBOLICO "CROWN," en cartones, \$1.00 docena; encarnado, \$3 00 docena.

Pidanse la lista de precios. Los pedidos que vienen por medio de comisionis as recibirán inmedia a atención. Dirigir todas las comunicaciones a la tabrica, New Fairfield Works, Old Bailey, E C.

FIRST AWARD, Sydney, 1879.



HONOURABLE MENTION, Bordeaux, 1882.

PER CAPS. GROSS BOX

MADE of superior strong Papers by Machinery Patented in England, France, Germany, and America.

PLEATED IN A STYLE IMPOSSIBLE TO IMITATE BY MANIPULATION.

PRICE LIST.

Numbers 0 to 5 (Drachms to 10 oz.) ... 1s. Od. per gross. (Pints) 2s. Od. Various other sizes and shapes to special order.

THE STOCK COLOURS ARE RED, BLUE, GREEN, ORANGE, VIOLET, GREY, AND WHITE.

Stamping Name and Address oper Gross (minimum 10 Gross).

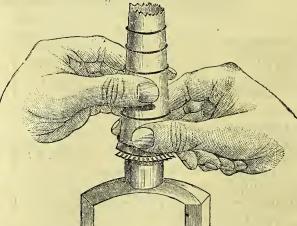
HUNT'S BOTTLE CAPS can be more rapidly fastened on Dispensing Bottles with ELASTIC BANDS, by means of the newly-invented CAPPING STICK.



STICKS, 1d. EACH.



ELASTIC BANDS, 4d. PER GROSS.



METHOD OF CAPPING.

SOLD BY ALL DRUGGISTS' SUNDRIESMEN, AND BY

W. F. HUNT &

3 4, 5, LITTLE WINDMILL STREET, LONDON, W. MANUFACTORY, MARSEILLES.

Special Notes.—Orders for Stamped Caps delivered free by Pareels Post. Liberal Discount to Wholesale Houses.

TO MERCHANTS:-Freight Paid from Marseilles to any Port in the World upon Orders for 500 Gross and upwards.

SPECIAL NOTICE

TO SHIPPERS, WHOLESALE DEALERS, AND THE TRADE.

SPECIALITIES WORTH ATTENTION.

THE ONLY BROWN WINDSOR USED IN HER MAJESTY'S PALACES FIRST

MANUFACTURED 1796.

SOLD IN BOXES CONTAINING SIX SMALL TABLETS OR THREE LARGE, 1/6 each; 12s. per Dozen Boxes.

DUCHESS MARIE BOUQUET

ADELINA PATTI'S FAVORITE PERFUME.

2s. 6d., 3s. 6d., 5s. and 10s. 6d. per Bottle; 20s., 28s., 40s., 80s. per Dozen.

PRICE LIST ON APPLICATION.

SHARP BROS., 12 SOUTHAMPTON ROW, LONDON. W.C.

SILVER MEDAL Awarded at the INTERNATIONAL HEALTH EXHIBITION.

SPONGES.

R. GRESSWELL & CO.,

SPONGE IMPORTERS & MERCHANTS,

32 Red Lion Square, London;

AND AT PIRÆUS AND SMYRNA.

ESTABLISHED 1850.

PRIZE MEDALS AWARDED:



SPONGES OF EVERY KIND AND DESCRIPTION BY THE CASE, PIECE, OR WEIGHT, SANDLESS OR IN SAND, OR ON STRINGS, CARDS, AND BLUE CARD BOXES.

IMPORTANT NOTICE.

The value, quality, and style of R. C. & Co.'s Sponges being so vastly superior, in all respects, to those currently offered, it is to the interest of all Buyers that it should be clearly stated that theirs are the Sponges required, and NOT IMITATIONS. All indents should, therefore, specify that R. C. & Co.'s Sponges must be sent, in order that all loss and inconvenience may be avoided, they having received just and serious complaints from correspondents abroad, whose intentions in this respect are not always carried out.

Messrs. R. C. & Co. beg further strongly to call attention to the fact that, owing to the success attained by them in the preparation of Sponges for the market—the result of 35 years' researches and experience—dealers are offering goods purporting to be the same as R. C. & Co.'s, but which are dyed with deleterious compounds, in no way comparable to theirs, AND ARE VERY CONSIDERABLY DEARER.

FULL PRICE LIST FREE ON APPLICATION.

ALL COMMUNICATIONS TO BE ADDRESSED TO LONDON OFFICES.

JAN. 15, 1885.



G. B. KENT & SONS, LONDON.

Offices: 11 Great Marlborough St., London, W. Factories: 46 Bonner Road, London, E.

1884, GOLD MEDAL. CALCUTTA EXHIBITION,





1876





Highest Award for Sponges. 1st Special Award for Brushes.



1st Order of Merit.

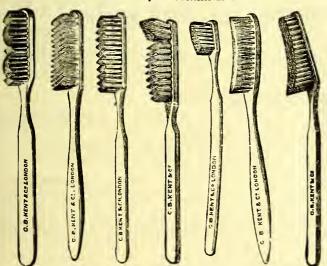


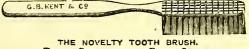




KENT'S TOOTH BRUSHES.

N.B.-Special Factories at Victoria Park are set apart for this one description of Brush,





TRIPLE CEMENTED AND EXTRA SECURE Depôt for America: 91 Fulton Street, NEW YORK.

Price per doz

Third

Imperial

WARRANTED

3/6

WARRANTED Quality Pifth

BECURE

SOUND 6/0 8/6 11/0 per doz 3/0 3/6

Badger Hair Tooth Brushes Ohildren's Ohildren's ,, ,, Tooth Brush Guards ... Japanned Wet Brush Holders

First Quality

Quality

Quality

3/0 5/6 6/0 13/0

BRUSHES. KENT'S NAIL

ROACHED AND GROOVED.



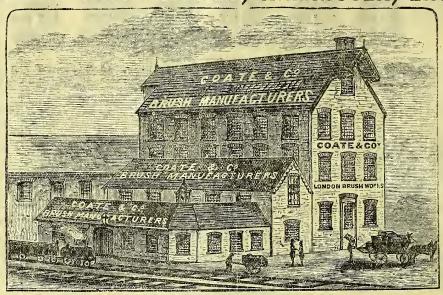




SPONGES.—At 11 Great Marlborough Street is a Sponge Room worth the inspection of the Trade.

G. B. Kent & Sons' Illustrated Catalogue, containing 700 woodcuts, will be forwarded free on application.

COATE & C THE LONDON BRUSH WORKS, AXMINSTER, ENGLAND,



IVORY, BONE, AND WOOD BRUSH MANUFACTURERS,

PATENTEES OF THE WHITE ENAMELLED TOOTH BRUSHES,

TAVING for several years past found it impossible to give that room and accommodation for Packing, Stamping, Storing, &c., which their growing business requires, as during the past year or two they have been favoured with a larger supply of orders than ever before, and although they often hold in Stock from Two to Three Thousand Gross of Tooth, Hair, Nail, and Cloth Brushes, made and partly made, yet from the limited accommodation which their Warehouse afforded they were unable to give their customers the full benefit of that Stock in the due and prompt execution of orders in reasonable time, they therefore resolved to move their Warehouse and Offices to their newly-acquired Freehold Premises at

AXMINSTER, DEVONSHIRE

(as shown above), where they have ample room for training a sufficient staff in that special technical knowledge so requisite for their peculiar trade.

And they have reserved Land for the erection of any additional Workshop accommodation which may be required from time to time, and are fitting up their Factory with the latest improvements in all that relates to toilet Brush Manufacture.

Chard being only seven miles from Axminster, they will carry on their Branch Works at Nimer Mills, Chard, as heretofore. But all Sales, Orders, and Correspondence will be carried on at and from Axminster.

It is now thirty-six years since Coate & Co. established their special Factory for the manufacture of **Tooth, Hair, Nail, and Cloth Brushes** in London. Since that time the smoke in the atmosphere has so increased that it has become impossible to produce and finish their style of Brushes in London, a pure, clean atmosphere being indispensable, which they

find here in perfection. They have also water power from the River Axe.

And to meet the requirements of the Trade, when Brushes are wanted by return, COATE & CO. have made special arrangements with MESSRS. BARCLAY & SONS, 95 Farringdon Street, who will hold a general stock of Coate's well-known

Tooth Brushes, in all qualities, and supply the trade at C. & Co.'s prices.

But in all cases where Brushes are required to be stamped with Customer's name, orders will be received and executed

through Messrs. Barclay & Sons, or by Coate & Co. direct, with as little delay as practicable.

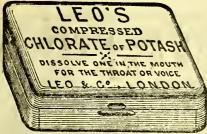
On every Wednesday and Saturday Coate & Co. send to their London Agents per tonnage rate whatever orders they have ready to Carter, Paterson & Co., Carriers, Goswell Road, London, who deliver each order free of cost in London to whatever wholesale House, Carrier, Railway or Shipping Agent their customer may order their goods to be sent by; and goods ordered to "wait instructions for forwarding" will, when such order is completed, be sent to the Carriers, Carrent, Paterson & Co., LONDON, and the invoice, with post card enclosed, sent to customers on the same day as the goods are sent off to London. COATE & Co. therefore beg customers, on receipt of invoice, to advise CARTER, PATERSON & Co. by what means they are to forward the Goods on to them.

With these increased facilities they hope still further to merit a continuance of the favours bestowed on them for so many years past; and of those who require the Best made Tooth Brush we respectfully solicit a small trial order for comparison against any makers' Tooth Brushes in the world.

WANTED.—Special Wholesale Agents for Calcutta, Bombay, Madras, Ceylon, New York, Chicago, and San Francisco.

MARCH, 1884.]

P.S.-LATE OF 41 LISLE STREET, LONDON.



LEO'S

COMPRESSED

Chlorate of Potash.

Price to the Trade, 2/6 PER DOZEN, less

Supplied by all Wholesale Druggists. A sample dozen the usual discount. boxes will be sent, postage paid, to any Chemist, on receipt of 2/6 in stamps.

These are the best, and are put up in the most of elegant style of any cheap compressed goods in the market.

SOLE WHOLESALE AGENTS: BARCLAY & SONS, 95, Farringdon Street, London, E.G.

A PERFECT BOON TO MOTHERS!

ROGERS'

One application is guaranteed to destroy all Nits and Parasites in Children's Heads, and immediatery

It is now used in Thousands of Families with the greatest success, and all who have tried it are delighted with the effect, and declare it to be worth A GUINEA

PREPARED ONLY BY

WILLIAM ROGERS. CHEMIST

BEN JONSON ROAD, STEPNEY, E.

Sold in large Bottles, price ONE SHILLING. Sample Bottle, 7d. SOLD BY ALL CHEMISTS AND PERFUMERS.

Observe! Genuine only in Yellow Wrapper, White Label.
WHOLESALE AGENTS.—Barclay & Son; Edwards & Son; Maw, Son
& Thompson; Millard & Son; Sanger & Sons; Thompson & Co., Limited;
Butler & Crispe; Hovenden & Sons; Newbery & Sons."

BEAUTY-WOMAN'S GREATEST CHARM.

Prepared from the Recipe of the late Dr. Anderson, produces a lovely complexion. It is elegantly perfumed, without sediment, and perfectly harmless. One of the best preparations before the public. Largely advertised and in great request. 4/6 each.

Agents-Messrs. NEWBERY, King Edward Street. Newgate Street, London.

ORPE'S COMPOUND

1-lb. Bottles, 6/6 each; 1-lb. ditto, 12/6 each.

This compound will be found superior to Bergamot or Lemon for seenting Pomades, Cosmeties, or Oils. (2 oz. to 2 lb. Ol. Olivæ.)

A. F. FOSSE (T. M. ORPE), 329 Old Kent Rd., London, S.E.

Importer of French Pomades and Essences. Obtained through Messrs.

Maw, Son & Thompson, and all Wholesale Honses.

Recommended by Eminent English Medical Men.

The best Unscanted Soap in use.

REDUCTION

November, 1884.

BRECKNELL, TURNER & SONS, Haymarket,

AND THROUGH ANY WHOLESALE HOUSE By appointment to the Queen.

jabon sin perfume que se conoce.

por eminentes de la Japon para la piel. Faculta inglesa.

REDUCCION EN LOS PRECIOS, NOVIEMBRE 1884.

Diniginse:-

BRECKNELL, TURNER & SONS, Haymarket, LONDRES

(Proveedores por Nombramiento Real).

Ó Á CUALQUIER CASA AL POR MAYOR.

CERTIFICATE OF MERIT, LONDON, 1881.

PATENTEES & MANUFACTURERS OF EVERY DESCRIPTION OF

BRONCHITIS KETTLES, FOOD WARMERS, NIGHT LAMPS & SPIRIT LAMPS.

HIGH STREET, HARBORNE, BIRMINGHAM. Wholesale Agents: S. Maw, Son. & Thompson, London.



(W. G. BAKER, R. C. HEATH, T. TYRER, W. E. B. BLENKINSOP.)

WHOLESALE AND EXPORT ONLY.

MERCURIAL

PREPARATIONS.

PHRE

ETHERS METHYLATED.

REFRIGERATION.

AMMONIA.

BISMUTH PREPARATIONS.

FRUIT

ESSENCES

RASPBERRY ACID

TRANSPARENT SUBLIMED

1 to 12 INCHES SQUARE.

[See pages ii. 18, 19, 66, and 67.



R. C. HEATH. T. TYRER. W. E. B. BLENKINSOP.)

AL POR MAYOR Y PARA LA EXPORTACION SOLAMENTE.

PREPARADOS

MERCURIALES.

PUROS

ETERES MITÍLICOS.

PARA REFRIGERACION.

AMONIA.

PREPARACIONES DE BISMUTO.

DE FRAMBUESA.

ALCANFOR

TRANSPARENTE de 1 hasta 12 pulgadas cuadradas.





SPECIAL NOTICE TO THE TR

The word **SAVARS** has been adopted and duly registered by the Proprietors as a Trade Mark on every description of Druggists' Sundries supplied by them to the Registered Chemists and Druggists only.

The Goods will be found of unsurpassed quality, and at most reasonable prices.

- SAVARS HOUSEHOLD REQUISITES.—Brunswick Black, Carbolic Soap, Feeding Bottles, Breast Exhausters, Furniture Polish, Marking Ink, Knife Polish, &c. All labelled and got up in a superior style to those usually offered.
- SAVARS MEDICAL REQUISITES.—Cotton Wool, Chest Protectors, Ear Syringes, Camphor Rolls, Enemas, Corn Plasters, Plasters—Marginal, Tonic, and Porous; Fossiline Plasters, Gutta-Percha Tissue, Oil Silk, Trusses, &c. All of first-class quality and finish.
- SAVARS TOILET REQUISITES.—Bear's Grease, Brilliantine, Cold Cream, Eau de Cologne, Floral Bloom, Lime Cream, Pomades, Perfumes, "May Blossom" Toilet Requisites, Floral Pomades, Glycerine Jelly, Lavender Water, Shaving Cream, Tooth Paste, Violet Powder, Fuller's Earth, Fossiline Pomades, &c.

Will be found of superior quality and finish to any offered

SOLE PROPRIETORS:

EVANS, SONS & CO., LIVERPOOL.

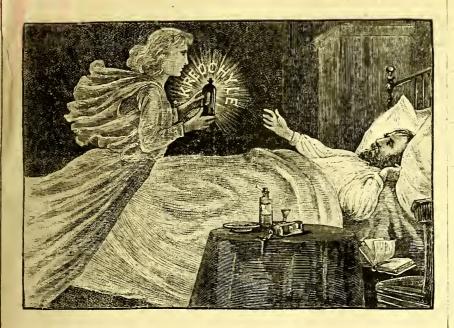
EVANS, LESCHER & WEBB. EVANS, SONS & MASON (LIMITED),

Montreal and Toronto.

N.B.-A Complete Illustrated Price Current of Druggists' Sundries, Proprietary Articles, Patent Medicines, &c., issued every Six months and supplied on application and receipt of Business Card







THE LANCET.

" A most concentrated and active form of liquid ford; contains large quanti-ties of albumen."

BRITISH MEDICAL JOURNAL.

"Its administration has been attended with much benefit."

CROYDON GENERAL HOSPITAL.

"I have found it a most usoful preparation in those cases where a nonrishing and stimulating food is necessary."

PATHIC HOSPITAL.

"I find it is retained when all other food is rejected."

ANDREW WILSON, Esq., F.R S.E.

"Kreochyle contains albuminous and nitrogenous compounds in very high proportions. Requiring no preparation, it possesses the immense advan-tage of always being ready for usc. The effects of its administration are speedily observable in cases in which all other forms of nourishment have been rejected. One most beneficial property, that of rapid diffusibility, characterises it. The administration of Kreochyle relieves pain and nausea until such time as other foods can be borne and digested. Those in want of a safe and satisfactory liquid food, for any form of weakness or disease, cannot do better than give Kreochyle a trial."

REOCHYLE IS A PURE LIQUID MEAT, CONTAINING, IN ADDITION TO THE ORDINARY "MEAT EXTRACTIVES," THE WHOLE OF THE SOLUBLE ALBUMEN OF THE MEAT IN A FORM SUCH THAT IT IS ABSOLUTELY SELF-DIGESTIVE.

FOOD AND

STIMULANT BARFF & WIRE FOR INVALIDS AND INFAN

AND INFANTS.

PRICES-Retail, 5/ per pint; 2/9 per 1/2 pint; 1/6 per 1 pint.

HAND-BILLS, SHOW-CARDS, AND SAMPLES SENT WITH EVERY ORDER IF DESIRED.

LIQUID MEAT.

BY ROYAL LETTERS PATENT.

BARFF BORO-GLYCERIDE FOOD PRESERVER.

SURGICAL PURPOSES.

THE TIMES, April 1. 1882.—" When the Solution is added to Cream, the latter undergoes no change in the hottest weather; and Cream thus prepared has been sent both to Zanzibar and to Jamaica, arriving sweet and good at its destination in either case,

"The Fowls and Beef preserved by Barff Boro-Glyceride were only used this last vovage, making a period of four and and a half months; they were firm and perfectly sweet. Signed, P. F. Pin, Steward steam yacht Ciplon, October 13, 1884."

THE LANCET .- " Nothing can be hetter than the action of this compound."

Pamphlets, Samples, &c., sent with each order if desired.

PRICES—Retail, 5/ per lb.; 2/6, ½ lb.; and 1/ sized bottles.

FOR PARTICULARS CONCERNING KREOCHYLE AND BARFF BORO-GLYCERIDE APPLY TO THE

KREOCHYLE COMPANY, 8 FARRINGDON ROAD, LONDON, E.C.

TO BE OBTAINED OF ALL WHOLESALE HOUSES.

Specially adapted for the Colonies and Hot Climates, being free from all HEATING and IRRITATING Properties.

Is unequalled as the most Wholesome and Nutritions Food FOR INFANTS AND INVALIDS.

SCOTT'S MIDLOTHIAN OAT FLOUR, made entirely from the finest quality of Midlothian Oats, is easily prepared, most satisfying, and Invaluable in promoting the growth of bone, and a healthy regularity of system when given to INFANTS, as it can be used through an ordinary feeding Bottle by Infants of a few weeks old. Guaranteed perfectly pure, being free from husk and vegetable fibre.

Highly recommended and used by Emment Physicians at Home and Abroad.

Sole Makers—A. & R. SCOTT, Offices—(50 to 07 CROOKSTON ST.) Kingston, Glasgow. LONDON DEPOT AND OFFICE-14 FINSBURY SQUARE, E.C.

LEUBE-ROSENTHAL'S

Prepared by R. STUEIZ. Chemist, Successor to Dr. MIRUS, Jena, Germany.

This carefully prepared Meat Solution contains the real stimulating and nourishing constituents of the best quality of beef, freed of fat and sinews. It is exceedingly appetising, and easily digested even by the weakest stomach. It can be taxen either entire or diluted with water. It is totally devoid of that obnoxious, nauseous taste so common to most of the meat preparations. It will keep good in hermetically closed time for any length of time.

Retail Price per Tin, containing ½ lb., 2/; Wholesale, per dozen, 17/ net.

Wholesale Depôt: H. POTHS & CO., 4 Sugar Loaf Court, Leadenhall Street, LONDON, E.C.



New really Nutritious and Agreeable Food for Invalids, as well as for all persons in good health.

A solution of the long-sought scientific problem. The nutritions constituents of fresh meat peptonised and retaining the alumen, forming a product of the highest alimentary order, not liable to decompose, agreeable to the taste, invigorating, and instantly assimilable, without requiring the process of digestion. Used with the best results in the Hospitals of London, Paris, Berlin, Vienna. &c. Specially recommended for convalencents, and for sufferers from dyspepsia, poverty of blood, sudden faintness. &c. For further details, see The Lancet of September 6th, 1884.

Sole Consignees—WIDENMANN, BROICHER & CO., 33 Lime St., London, E.C.

HARVEY'S SAUCE



This Label is protected by PERPETUAL INJUNCTION in Chancery of the 9th July, 1858, and without it none can be GENUINE.

Prepared only by E. LAZENBY & SON, LONDON.

And sold Retail by Grocers, Oilmen, Italian Warehousemen, &c., throughout the Kingdom.

SPECIAL ROTICE & CAUTION.

BRAND & CO.

The Original Manufacturers of Essence of Beef (green label under wrapper), and other Specialities for Invalids, have

REMOVED NOT

From their SOLE ADDRESS, No. 11 LITTLE STANHOPE STREET, MAY-FAIR, W, and caution the trade to

BEWARE of IMITATIONS



The Pharmacist can now obtain for the first time, in a wholesale form, thoroughly reliable

INFANTS' & INVALIDS' FOODS.

Carefully prepared on modern Chemical and Physiological bases, so that he

will be now able to compete with the increasing

demand for Proprietary Foods, by retailing a food either "put up" or ex charta.

at an advantageous profit.

PRICE.

 $7\frac{1}{2}$ d. per lb.

with each 28-lb. parcel of EITHER FOODS, dark

green ground, white letters. gilt edges, and

on it to suit purchaser. any name, &c., printed

PRICE.

9d. per lb. #4 per cwt. INFANTS'

COST PRICE.

28 lb. M. F. F.... 17 Tins, labels, time, &c. 6 6

£1 4 ()

RETAIL PRICE.

Will fill at least 56 tins at 1/ each

£2 16 0

PROFIT.

51d. per tin, or net profit,

£1 12

T. WALKER, Manufacturing Chemist, 44 CLOTH FAIR, LONDON, E.C.

Los farmaceúticos pueden ahora obtener por primera vez en forma saludable un alimento para

NIÑOS Y ENFERMOS

De toda confianza y preparado cuidadosamente, y con arreglo á los principios

químicos y fisiolígicos modernos, con el

cual podrán competir con la creciente demanda de alimentos propietarios, vendiendo

este al detalle en paquetes ó á granel á una ganancia considerable.

PRECIO, 3 rs. la libra.

325 rs. por qtl.

Con cada paquete de 28 lbs. de cualquiera de los dos alimentos se enviará

MAGNIFICIO TARJETON

de $9\frac{1}{2} \times 5\frac{1}{2}$ pnlg. con fondo verde oscuro, letras

blancas, cantos dorados y cualquier nombre, ctc., impreso en el mismo á gusto

del comprador.

PRECIO, 1 pes. la libra.

400 rs. por qtl.

AMBOS ALIMENTOS

PRIMER COSTE.

28 lbs. A. F. M... Latas, etiquetas, tiem-po, etc.

87½ rs. 321 ,,

120 ,,

PRECIO AL POR MENOR.

Pueden llenarse por lo menos 56 latas à 5 rs. cada nna

280 rs.

GANANCIA.

2.25 rs. por lata ó sea un beneficio neto de ...

160 rs.

WALKER, Manufacturing Chemist, 44 CLOTH FAIR, LONDRES, E.C.

SEVEN INJUNCTIONS have been granted during the past few months.



CAUTION! "YORKSHIRE RELISH."



NOTICE IS HEREBY GIVEN that in several actions instituted by Messrs. GOODALL, BACKHOUSE & CO., of Leeds, Injunctions have been recently granted by Judges of the Chancery Division of the High Court of Judicature, restraining several persons from using several Counterfeits of Messrs. Goodall, Backhouse & Co.'s Labels, and in particular against the use of the words "YORKSHIRE RELISH." The sole and exclusive right to the use of which words having been finally established by the above Firm, they will take immediate proceedings against parties manufacturing or offering for sale Sauce under the above title, not being of the manufacture of Messrs. Goodall, Backhouse & Co.

Information may be given to the undersigned,

J. SEYMOUR SALAMAN,

12 KING STREET, CHEAPSIDE, LONDON, Solicitor to the Trade Mark Protection Society.

TO INVALIDS

MOIR'S SOURS

IN 1-lb. and 1-lb. GLASSES.

OX-TAIL SOUP (Clear)
MOCK-TURTLE SOUP (Clear)
BEEF TEA,
CHICKEN BROTH.

PREPARED

DANDELION

(LEA & PERRINS').

MADE WITH PURE

DANDELION ROOT & THE FINEST COFFEE.

Sold in Tins, at 8d., 1s. 6d., & 3s. each.

LIVER TONIC

(GEORGE & WELCH'S).

1s. 1½d., 2s. 9d., and 4s. 6d. per Bottle.

CARBOLINE (TOOTH PASTE)

1s. 6d. per Pot.

Supplied by the Patent Medicine Houses on the usual terms, or the Makers

GEORGE & WEICH, WORCESTER.

FRY'S MALTED COCOA

(PATENTED).

A Combination of FRY'S Pure COCOA EXTRACT with

ALLEN & HANBURYS' CONCENTRATED EXTRACT OF MALT

J. S. FRY & SONS, BRISTOL AND LONDON.

12½ GALLON CASK FOR £1.



CASK FREE.

School of Co kery, Crystal Palace, S.E. January 1883.

Mr. PETER TYPER,

SIR,-I have been using the "Borough" Ketchup, and am very pleased with it. Its flavour is excellent, both for all kinds of Savoury Dishes and Soups; and I mot certainly should advise every cook and housekeeper to use it, FOR I HAVE NEVER YET MET ITS FQUAL - MARIAN SMITHARD, Lectures on Cookery.



"We doubt whether there is any sauce or condiment cheaper, better, or more palatable than ketchup, and we are certainly not acquainted with any more economical or delicious one than that known as the 'Borough Ketchup.' With chops, steaks, cold or hot joints, or as an addition to gravies, &c., this condiment is invaluable. In fact, the 'Borough Ketchup' may be pronounced to be the cheapest, test, and most palatable manufactured."—Civil Service Gazette.

"Under the title of Borough Katchup, Mr. Tyrer manufactures a sauce which possesses much piquancy of flavour, and is a clean and heatbful condi-ment. It is pleasant and palatable to the taste, and will, no doubt, commend the favourable attention of connois-seurs." — Tre Medical Press, March 14th, 1853.



"MR. PETER TYRER, of Long Lane, S.E., sup-plies the School of Cookery at the International Health Exhibition with his renowned 'Borough' Ketchup. We understand that this excellent condiment is in high favour at the 'Healtheries.' Grocers who have not yet handled the ketchup, will do well to try it. On application to Mr. Tyren, he will forward afree sample."—Grocer's

From The Grocer of July 26th.

"Trark's 'Borongh' Ketchap.—In the School of Cookery at the Exhibition we notice that the ketchap supplied to the tables hears the well-known 'Borongh' brand, manufactured by Mr. Tyrer. Long Lane, S.E. This betchap is of first-rate quality, and has a large sale amongst grocers in all parts of the Kingdom. The agent for Scotland is Mr. J. C. Galloway, 115, West Nile attreet, Glargow. Mr. Tyrer forwards a free sample of this article to any propher of the transactions. member of the trade on application.



"After careful examination we can disproduct and that usually sold at three and four times the price. Chemists ought not to go on paying the fancy price, unless they are satisfied that they are getting equivalent value."—Edutor "Chemist and Druggist."

Berwick-on-Tweed, September 13th. Mr. PETER TYRER, Borough.

DEAR SIR.—Please find cheque enclosed for one cask of ketchup, same as last. We find onr trade much increased, and profit likewise, since dealing in your article. The trade is much iodebted to you for bring-ing out such a good ketchup, and at so low a figure. - Faitbfully yours,

WM. GRAHAM CARR & SONS



121 GALLON CASK FOR £1, CASK

Sample Keg, containing THREE GALLONS, for 5/, KEG FREE. CASH BUYERS ARE ASKED TO WRITE FOR FREE SAMPLE AND JUDGE THE ARTICLE BY COMPARISON.

TER TYR

LONG LANE BOROUGH, LONDON,

Chief Scotch Agency: West Nile Street, GLASGOW.

Hunyadí János

CA UTION —Circumstances which have come to the knowledge of Andreas Saxlehner, Bnda Pest, Sole Proprietor of the Hunyadi János Spring, compel him to warn the British Public against SPURIOUS IMITATIONS. To secure gennineness, purchasers should see that every bottle has on the LABEL the name of "THE APOLLINARIS COMPANY (LIMITED), London."

ORANGE-QUININE TONIC-WINE.

As originally introduced by us, containing 1 grain of quinine to the ounce.

To meet the requirements of the trade, we have reduced the prices as below. The size of the bottles and the quality are as hitherto supplied:—

In bottles 6 to gallon, to retail at 2s. each, at 19s. per doz. In small bottles, to retail at 1s each, at 9s. per doz.

Less 5 per cent. discount. Carriage paid to any part of England on quantities of 3 dozen large or 6 dozen small bottles.

HIRST, BROOKE & HIRST, LEEDS.

M. A. CRAVEN & SON, WHOLESALE AND EXPORT CONFECTIONERS,

Medicated Lozenges, Refined Liquorice, Jujubes, and every description of Confectionery,

IMPORTERS AND MANUFACTURERS OF LEMON, ORANGE, AND CITRON PEELS.

EBOR CONFECTIONERY

WORKS,

Lozenges of all descriptions made from Customers' private formulæ (or ingredients), and stamped with any name or device.

SPECIALITIES—Cough, Peppermint, Rose, Musk, Bouquet, Cachon, and all kinds of Medicated Lozenges.

ESTABLISHED 1843. PRICE LIST ON APPLICATION.

ROBINSON'S ORANGE WINE

VIN. AURANTII, B.P.

Specially prepared for Quinine Wine, does not deposit, will keep good in any Climate, and well adapted for Export Trade.

Supplied in Casks containing 9, 18, 30, 60, or 120 Gallons. Terms on application.

THE UNIVERSAL CORN AND WART PENCIL.

4 dos. mounted on a handsome Illustrated Show-Card, Retail, 6d. each; Wholesale, 3s. 6d. per doz. It is especially adapted for Export Trade, and may be safely sent to the hottest olimates, as each glass tube is hermetically sealed and enclosed in a cardboard case.
N.B.—The above is exempt from Stamp Duty by permission of the Board of Inland Revenue.

CONCENTRATED WATERS.—One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopeia, and free from all Chemical impurity. They are prepared to supply a want long felt by Chemists and Medical Men, and by their use a treah supply of any of the Medicinal Waters may be obtained at a moment's notice. They are not affected by age in any climate. N.B.—Used in the proportion of one part to thirty-two of water they represent the Medicinal Waters of the United States Pharmacopeia.

Per lb.

Aqna Anethi, Concent. 4/0

Aqna Anethi, Concent. 4/0

Aqna Anethi, Concent. 4/0

Camphorze , 4/0

Carni , 4/0

Ca

Wholesale Agents—Hearon & Co., Maw, Son, & Thompson, Lynch & Co., London; Evans, Sons & Co., Liverpool; Woolley, Manchester; Bewley & Draper, Hunt & Co., Dablin; Glasgow Apothecaries' Co., Hatrick & Co., Glasgow; Raimes & Co., Duncan Flockhart & Co., J. Mackay & Co., T. & H. Smith & Co., Edinburgh; Forgitt, Thirst; Goodall & Co., Leeds; J. Richardson & Co., Leicester; Slinger & Son, York; McKesson & Robbins, New York. Special terms for large quantities may be had from

B. ROBINSON, Distiller and Brewer of British Wines, Church St., Pendleton. Manchester.

MUSTARD. FINCH, RICKMAN & CO.'S Genuine Qualities

Are made from the finest mustard seeds only. Their compounds, as manufactured for upwards of a century, are guaranteed free from all ingredients imparting spurious heat, and are therefore equally suitable for both table and medical purposes.

6 BROKEN WHARF, UPPER THAMES STREET, LONDON.

CHEMISTS' TEA AGENCY.

WALKER & DALRYMPLE'S

BROKEN-LEAF TEA, 1s. 8d. per lb.
A MONEY SAVING TEA. ABSOLUTELY PURE.

The small leaf from some of the finest India and Chinn Teas. Produces a Tea in the cup, stronger, richer, and cheaper than most whole-leaf Teas. Agents appointed, where unrepresented, throughout the United Kingdom.

WALKER & DALRYMPLE'S

W INTERMEDIATE TEA, 2s. per lb.
BEST at the PRICE EVER SOLD. Great strength and a most useful
Tea where there is a large consumption. Recommended to all who wish to
SAVE in their Tea. Agents appointed, where unrepresented, throughout the United Kingdom.

TALKER & DALRYMPLE'S TEAS .--AGENTS APPOINTED, where unrepresented, throughout the United Kingdom.

Prospectus and Samples Free on Application.

Warehouses, 154, 155, 159 and 160 WHITEOHAPEL ROAD, and
BRADY STREET, LONDON.
P.O.O. payable at head office. Bankers, the National Provincial Bank

England.

KANGRA VALLEY Indian Tea Growers' Association, 7 NEW COVENTRY STREET, LEICESTER SQUARE,

THE distinctive feature of the Business of this Association of Planters is, that the Tea is delivered to consumers in the original One lb, tin-foil lined parcels in which it is packed on the Plantations.

Chemist and Druggist.—'A new agency for tea is offered to chemists and druggists by the 'Kengra Valley Indian Tea Growers' Association,' and the feet that the well-known firm of Barclay & Sons are ossisting this association in introducing their teas to the public through chemists is a guarantee that the husiness is of a more serious character than some other of the packet-tea agencies have proved. The Kangra tea plantations lie on the slopes of the North-West Himalayus, and this association appear to take great eare in the selection of their leaves, and certainly offer a tea of fine quality. Their teas are packet in pound packets at the plantations, and in that form are offered for safe here in three different qualities."

These Teas, retailing respectively at 4,3, and 2,6, can be purchased in an yountly, either direct from the Store, 7 New Coventry Street, or from Messrs, Barclay & Sons, 35 Farringdon Street, Agents to the Association.

Special Terms granted to all Chemists and Druggists, to whom the Teos, on

Special Terms granted to all Chemists and Druggists, to whom the Icos, on account of their absolute purity, are particularly recommended.

RANDALL'S BLACK CURRANT 107FNGFS

		TAGE	CHESID.	TOA	CCL
71		s.	d.	s.	
Plain Black Current, old square		2	в	2	8
" " rough oval	••	. 2	6	2	8
Black Current and Ipecacuanha		2	в	2	8
Black Current and Tannin		8	0	8	8
Black Current Voice (warm astringent)		8	0	8	8
Black Currant Cough Lozenges		3	в	8 1	10
(* Ipecac. and Morph., strength as "]	в. І	?.")	•		-0

In Bottles, 1 lb., 2 lbs., 4 lbs., and 7 lbs. For Exportation, in soldered tins, of any size. From EDWARDS, London; through any Wholesale House; and from the Manufacturers,

RANDALL & SON, Southampton,

Who will forward Samples by post on application.

Also, Brown Cough Lozenges, 2s., 2s. 2d.; 7 lbs. stamped with name free, and Musk Lozenges (Special), 2s. 6d., 2s. 8d.

N.B.—Medical Lozenges of every kind,
Including those of the Pharmacopeia of the Hospital for Diseases of the Throat, London.

SEVEN PRIZE MEDALS AWARDED.

GOODALL'S

YORKSHIRE

THE MOST DELICIOUS SAUCE IN THE WORLD. This cheap and excellent Sauce makes the plainest viands palatable, and the daintiest dishes nore delicious. To Chops and Steaks, Fish, &c., it is incomparable. Sold by Grocers, Oilmen, Chemists, &c., in Bottles, &d., 1s.,

and 2s. each.

CAUTION.—On each Forkshire Relish Label is a Willow Pattern Plate, and name, GOODALL, BACKHOUSE & CO. No other is genuine.



THE BEST IN THE WORLD. delicions Puddings without Eggs, Pastry without Butter, and light Bread without Yeast. In 1d. Packets; 6d., 1s., 2s., and beautiful light Bread without Yeast.

The best, cheapest, and most agreeable tonic yet introduced. The best remedy known for Indigestion, Loss of Appetite, General Debility, &c. Restores delicate individuals to health and vigour. In Bottles, 1s. 1½d. and



For making delicions Conterds without Eggs, in less time and at half the price. Unequalled for the purposes intended; will give the numest satisfaction if the instructions given are implicitly followed. Sold in Boxes



Makes Three Gallons of the Best Ginger Beer in the World for 3d.

Is a delicious and invigorating beverage, possessing valuable medicina operties. It is cooling in its nature, and a most wholesome beverage for properties. It is cooling in its nature, and a most wholesom both winter and summer. Sold in Packets, 3d. and 6d. each.

acknowledged by all to be the most convenient and economica paration ever introduced, as, by its use, a most Rich and Delicious Blanc-mange may be produced in a few minntes at a trifling cost, and may be had of various flavours, i.e., Raspberry, Strawberry, Lemon, Almond, and Vanilla. Sold in Packets, 6d. and 1s. each.

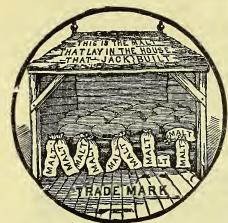
Goodall's

Acknowledged to be the only real substitute for eggs yet discovered. Its action on Cakes, Puddings, &c., &c., resembles that of the egg in every particular, enriching them in colour and flavour, rendering them most wholesome and nutritions. One penny packet will go as far as four eygs: and one sixpenny tin as far as twenty-eight. In 1d. Packets; 6d. and 1s. Tins.

GOODALL, BACKHOUSE & CO., White Horse Street, Leeds. A Monthly Price List of Druggists' Sundries, Patent Medicine &c. can be had not free on application.

CON FFEE

GOLD MEDAL AWARDED AT CALCUTTA EXHIBITION, MARCH, 1884.



Conroy's Malt Coffee has received the following Certificates amongst many others.

"Undoubtedly a nourishing and health producing article of diet." — Edward Davies, F.C.S., F.I.C., &c., Liverpool.
"Most beneficial in cases of atonic indigestion."—E. Adam, M.R.C.S., England.

"Genuine Coffee gives me indigestion, Your Matt Coffee is entirely free from this objection." —S. Whitaker, Waterfoot, near Manchester.

"Dyspeptics who could never take the ordinary coffee or date coffee can take the Malt

Coffee, and with the most beneficial effects."— Dr. Lloyd, Bangor.
"I have frequently recommended your Malt

Coffee in cases of weak digestion, invariably with satisfactory results."—W.Bell. Senior Surgeon to the Convalescent Institution, New Brighton.

"A most excellent combination."—A. W,
Postans, F.C.S., London.

"Very palatable and marvellously easy of
digestion."—Society, October 21, 1882.

"It can in many cases be readily taken when ordinary coffee disagrees." — British Medical Journal, July 29, 1882.
"Refreshing, and at the same time nntritious, spirit-infusing, yet absolutely non-intoxicating, palatable and wholesome to an eminent degree."—The Colonies and India, 20th Cart 1999.

29th Sept., 1882.
"Both pleasing to drink, and adds greatly to digestion."—The Anti-Adulteration Review,

October, 1882.

"The combination ought, therefore, to improve the health of those who consume it."— Globe.

"Mat Coffee, the new temperance beverage, would seem to make the nearest approach to what is required. Pure malt is in its own way as beneficial as pure coffee, being especially strengthening and nutritious."— Marwing Post. Morning Post.

IT IS MADE IN THE SAME WAY AS ORDINARY COFFEE.

Pamphlets containing Testimonials from Eminent Scientific, Medical, and other Gentlemen of the highest position, may be had Free for Gratuitous Distribution.

In cases of 56 lbs. each, put up in 1-lb., ½-lb., and ¼-lb. tins. Each Tin is protected by an Excise Stamp under the Regulations of the new inland Revenue Bill of August 3, 1882. PREPARED ONLY AT THE

WORKS, COFFEE 34 FLEET STREET, LIVERPOOL. SOLE PROPRIETORS-

SONS EVANS, LIVERPOOL. 2 CO., LONDON: CANADA:

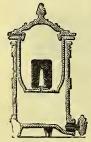
EVANS, LESCHER & WEBB. EVANS, SONS & MASON (Limited), Montreal & Toronto.

Most suitable for making Quinine Wine because of its containing the least percentage of tannic acid possible, and being in the most brilliant condition. In casks of not less 8 gallons, 4s. per gallon, carriage paid. Extra superior quality (finest made), 4s. 6d. per gallon, carriage paid.

SAMPLES FREE AND CARRIAGE PAID UPON APPLICATION TO

LAMB & WATT, 46 and 48 ST. ANNE STREET, LIVERPOOL.

LAMBETH, LONDON.



DOULTON'S MANGANOUS CARBON FILTERS (Dr. Bernays's Patent).

The Combination prepared under this Patent gives to the Charcoal its highest value as a

FILTERING MEDIUM.

The Filter is made in four movable parts—the body, the lining, the Manganous Carbon block, and the cover. By this means every portion of the Filter may be

KEPT PERFECTLY CLEAN,

and the Manganous Carbon block may be changed as often as necessary WITHOUT PARTING as often as necessary WITH THE FILTER.

DOULTON'S IMPROYED GRANULAR CHARCOAL FILTER.

In addition to the bed of Granular prepared Charcoal, these Filters are fitted with a movable block of MANGANOUS CARBON in place of sponge. This arrangement, whilst acting as a screen for suspended matters, gives a double action to the power of the FILTERING MEDIA.

Any Description of Filter Refitted at Moderate Charge.



DOULTON & CO. also manufacture Boudoir or Table Filters, Pooket and Syphon Filters for Tourists' ase, Manganons Carbon Self-Acting Cistern Filters, Refrigerator Filters, High Pressure Filters for manufacturing purposes, &c. May be had of all Dealers.—DOULTON & CO., Lambeth, London, S.E.

Powder

INTERNATIONAL HEALTH EXHIBITION.

MAIGNEN'S PATENT

"FILTRE RAPIDE."

GOLD MEDAL

FOR

WATER "FILTRE RAPIDE."

SILVER MEDAL

(HIGHEST AWARD)

Wine, Spirit, Beer, and Syrup

FILTRE RAPIDE."

GOLD MEDAL

ARMY "FILTRE RAPIDE."

SILVER MEDAL

(HIGHEST AWARD)

WATER-SOFTENING Process for Boilers
(Saving Life in Workshop).

BRONZE MEDAL (HIGHEST AWARD) FOR

MAIGNEN'S Patent "ANTI-CALCA

To SOFTEN WATER for WASHING.

Full particulars in Pamphlet, "Water, Preventable Disease, and Filtration," by P. A. MAIGNEN, 32 St. Mary-at-Hill, Eastcheap, London.

BETTS & CO., LIMITED

(ESTABLISHED IN 1840),

SOLE MAKERS IN GREAT BRITAIN OF

METALLIC CAPSULES,

AND PATENTEES OF THE

COLOURED SIDE MARK, LABEL, AND OTHER SPECIALITY CAPSULES

(For the Prevention of Fraud and Refilling of Old Labelled Bottles), as supplied to Eass & Co., and the leading Brewers and Bottlers of Wines and Spirits throughout Europe.

PLAIN ORDINARY CAPSULES,

For Small Phials, 2s. 6d. and upwards per 1,000, according to size, style, design, and quantity.

SPECIAL CONTRACTS FOR CONTINUOUS DEALING.

Manufacturers of Pure English-made Bottling and Package Tinfoil, from 1s. per lb. and upwards; Mixed Foil (Foreign Quality), from 6d. per lb. (according to gauge); Patent Barrel Packages and Snuff Canisters, &c.

MANUFACTORIES:—LONDON: Chief Office and Factories, Wharf Road, City Road, E.C.; and Holloway and Batavia Mills, Holloway, N.W.—BIRMINGHAM: Moor Green Fields.—PARIS: Office, 4 Rue Mogador, Chaussé D'Antin.—BORDEAUX: Office, 3 Quai de Chartrons; Factory, Monrépos, Floirac.

PATENTEES OF HYDRAULIC & MECHANICAL PRESSURE CAPSULING MACHINES,

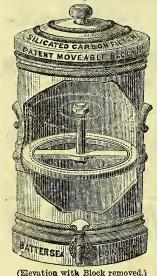
ESPECIALLY ADAPTED FOR CHEMISTS' COUNTERS.

Largely in use by the Trade, and efficiency guaranteed for all sizes of Bottles, at Royalties from 5s. to £2 2s per annum.

SILICATED GARBON

PATENT MOVEABLE-BLOCK FILTERS.

These Filters are constructed on Scientific principles, and can be renewed or repaired by the user without returning to the maker. They possess all the advantages of those with fixed filtering mediums, while the simple removal of the Silicated Carbon Block leaves the whole of the interior of the Filter open for inspection and cleansing. The working parts are stoneware, and corrosion is impossible.



NO LOOSE PAN OR INNER VESSEL
TO CAUSE BREAKAGE.

The block being non-porous on the top and edges, an *upward* direction is given to the water, which thus passes through a greater thickness of the Silicated Carbon, as shown by the arrows in drawing.



(Section.)

The Silicated Carbon Block can be instantly removed, leaving the whole of the interior of the Filter open for inspection and cleansing.

To Cleanse the block, plunge it into boiling water, and well scrub it with a hard brush. Extra blocks can be supplied with each Filter. All parts being interchangeable can be replaced in case of accidents.

This Patent can be adapted to all patterns manufactured by the SILICATED CARBON FILTER Co. without increased charge. In ordering please state "with patent moveable block."

Domestic Filters (as above), in Creamcoloured Stoneware, with Plated Taps and Patent Moveable Blocks:—

No. 27. O. ½ gal. 10/6 each. D. 6 gals. 42/- each.

A.1 ,, 14/6 ,, E. 8 ,, 52/- ,

B. 2 ,, 21/- ,, F. 12 ,, 70/- ,

C. 4 ,, 32/- ,

Dining Room Filters, in Marbled China, with Plated Taps and Patent Moveable Blocks:—

No. 22. A. 2 gals. 35/- each.

B. 5 ,, 80/- ,,

Refrigerative Terra Cotta do., do.:No. 25. 2 gals. 316 each.

All makes of Filters can be refitted on this principle, 1 gal. 8/6, 2 gals. 10/., 4 gals. 12/- each.

Larger sizes in proportion.

SILICATED CARBON FILTER COMPANY.

WORKS: BATTERSEA, LONDON.

SILIGATED GARBON

SYPHON FILTERS FOR TRAVELLERS.

By means of these Filters pure and perfectly wholesome water may be drunk from any pond or stream by simply immersing the Filter therein and drawing the water through the tube by suction. Each of these port-

able Filters may be

STED SFILTER CER

BATTERSEA LONDONSW

PURIFYING FUTE



No. 20.

used as a Syphon by placing it in a vessel of water, then drawing the water by the mouth, and allowing the flexible tube to hang over the side below the Filter. When once set in operation their action is continuous.

5 0

H.—Ditto, nickel-plated, designed by Major Fraser, R.E., and specially recommended by the Horse Guards for Officers' kits

FILTERS.

TABLE FILTER,

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



NO. 24.

to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simple means of obtaining at any time freshly-purified water.

PRICES.

No. O, 2s. 6d.; A, 4s.; B, 5s. 6d. Engraved Vine Pattern-O. 3s. 6d.; A. 5s. 6d.; B. 7s. 6d.

DINING-ROOM FILTER,

No. 22.

WITH PATENT MOVEABLE BLOCK.

MADE IN MARBLED CHINA.

PRICES.

A .. Two Gallons 35s.
B .. Five Gallons 80s.

The large size (B) is specially odupted for Hotels, Refreshment Rooms, Luncheon Bars, &c.

REFRIGERATOR FILTER, NO. 25,

WITH PATENT MOVEABLE BLOCK.

Made in Porous Terra-Cotta Ware,

Which acts with remarkable power as a cooler, and renders this Filter invaluable, especially in Tropical Climates,

COOL DRAUGHT OF PURE WATER.

Price, with Silver-plated Tap 81s. 6d Capacity Two Gallons.

Specially adapted for Tropical Climates.



MAIN SUPPLY FILTER, NO. 40,

WITH PATENT MOVEABLE BLOCKS,

CISTERN

SILICATED CARBON
MAIN SUPPLY FILTER.

Nº 40.
(SECTION)

OUTLET

MINERAL WATER MANUFACTORIES.

As used by Messrs. Schweppe, London, Liverpool, Glasgow, &c.; and most of the large makers.

Also for Schools, Hospitals, Mansions,

PRICES.

For \(\frac{3}{4}\)-in. Pipes \(\mathcal{E}6\) 6s.

"- 1-in. Pipes £9 9s.

CONSTANT SUPPLY FILTER

WITH PATENT MOVEABLE BLOCK.



These Filters require no attention from servants, as they are always filled and ready for use. The act of drawing Unfiltered Water cleanses the Filter, by washing away the impurities collected on the carbon.

FOR FULL PARTICULARS WRITE TO THE

SILICATED CARBON FILTER COMPANY,

CHURCH ROAD, BATTERSEA, LONDON, S.W.



& BLAND (R J. Fullwood & Co.) FULLWOOD L INVENTORS of the Prime, Rich, Golden-colour Cake and Fluid Estract of

for Colouring Cheese and

BLAND'S CHEESE The Best and Chrapest in the Market. Sold in Bottles, 1 Gallon, 2 Gallon, Quarts, Pints, and 2 Pints. Prices on application.

STEAM ANNATTO WORKS, 31 BEVENDEN STREET, HOXTON, LONDON, ENGLAND.



FULLWOOD & BLAND (R. J. Fullwood & Co.) Los inventores originales de la rica pastilla dorada y extracto liquido de

'TO, sustancia colorante para dar color á la mantequilla y al queso. Y DEL

CUAJO PARA QUESO DE FULLWOOD & BLAND. El mejor y mas barato en el mercado. Se vende en botellas de I galon, ½ galon, 2 cuartillos, 1 enartillo y ½ cuartillo.

Frecios al que los solicite.

Dirijirse: Steam Annatto Works, 31 Bevenden Street, Hoxton, Londres, Inglaterra.

ESTAPLISHED 1812.

ESTABL'SHED 1312.

Liquid Extract of Annatto.

PRIME

MARK

SEED & DALLERS GRINDERS, Butter Colouring in Oil. RENNET.

Drug, Chemical, and Seed Grinders. Importers of Flag, Seed, and Roll Annatto. Manufacturers of Liquid Extract of Annatto. Cake Annatto. Roll Annatto. Butter Colouring. Milk and Butter Preservative. Prime Rennet. Dyers' Chemicals. Dye Woods and Dye Stuffs. Aniline Colours.

Cariful attention to orders for Shipment, which for Canada and the United States is direct from this port. Best Markets sought for Foreign Produce

DRUG MILLS. LEWIN'S MEAD. BRISTOL. AND SPICE

ESTABLECIDOS

CLEMENTS

ESTABLECIDOS EN 1313

DE DROGAS Extracto líquido de annatto.

Cuajo Riquísimo.



Molineros de semillas, drogas y productos químicos. Importadores de Annatto en semilla, rollos, etc. Manufactureros de extracto liquido de Annatto. Pastilla de Annatto. Annatto en rollo. Materia colorante para mantequilla. Preservativo para leche y mantequilla. Cuajo rico. Químicos para tenidores. Maderas de tinte y tintes. Colores anilinos.

Se da atencion especial á los pedidos para la embarcacion. Para el Canadá y los Estados Unidos la embarcacion se efectua en este mismo puerto. Se reciben consignaciones del extrangero y se colocan en las plazas mas ventajosas.

Direccion: INGLATERRA. DRUG SPICE BRISTOL, MILLS, LEWIN'S MEAD.



THE REVOLVING APPARATUS

(Michaelis' Patent).

For further particulars See the Chemists' and Druggists' Diary, 1884, page 274, OR APPLY TO

PAUL ROTHERMEL. 105 (late of 27) LEADENHALL ST., LONDON.



GREAT IMPROVEMENT IN BUTTER COLOURING.

BUNSEN'S ANNATTONE

FOR BUTTER COLOURING.

This Preparation, which is PURELY VEGETABLE, will be found to be much superior to any other Butter Colouring hitherto invented. Being an oily solution, it more readily combines with the milk fat, and consequently gives a more uniform tint; while at the same time it gives that pure, rich golden colour to Butter and Cheese so much appreciated.

BUNSEN'S ANNATTOINE contains within itself all the requisites of a good Butter Colour. It is free from smell; tasteless; perfect in shade of colour; and the Proprietors believe that a shilling bottle will colour a greater weight of Butter or Cheese than any other shilling's-worth in the market.

BOTTLES, 1s. and 2s. 6d. each.

Applications for SPECIAL AGENCIES in countries where we are unrepresented are respectfully solicited.

MANUFACTURED ONLY BY

BUNSEN, BENSON & CO.,

80 FANN STREET. BARBICAN, LONDON.

GENUINE PREPARATION

McMaster, Hodgson & Co., Dublin,

ORIGINAL MANUFACTURERS PROPRIETORS.

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Jrne 30, 1870.	WARREN'S SWEET ESSENCE OF RESNET, for making Curds ald Whey-Label.	M'MASTER, HODGSON & CO., 121 & 122 Capel Street, Dublin.	M'MASTER, Hodgson & Co., 121 & 122 Capel Street, Dublin.	June 16, 1870.

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Have an immense sale, both at home and abroad; will keep in any climate, and give universal satisfaction.

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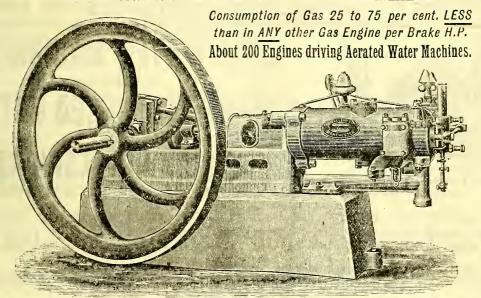
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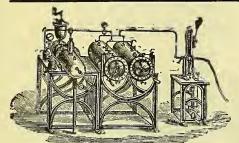
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BRATBY & HINCHLIFFE have pleasure in introducing to the TRADE their

NEW "CHEMISTS" SODA-WATER PLANT.

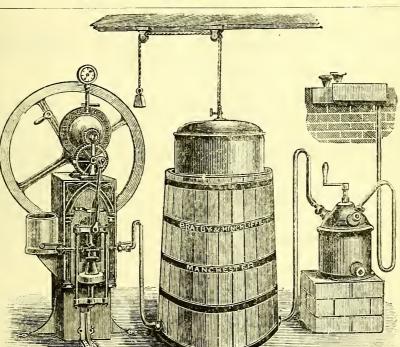
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For Mineral Waters and Gaseous Liquids.

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ROYALTY FREE.



Fig. 2.



Fig. 1 M'18. 8.



Fig. 7.

It will be seen by reference to figs. 6 and 7 that I now form a butto. It will be seen by reference to figs. 6 and 7 that I now form a butto, or but under the base of my Stopper for the purpose feasily extracting same from the Bottle without spolling or removing the indiarubbe from the body of the Stopper. This is readily accomplished by the us of a suitable tool made to fit on the nut; the Stopper being grasped i withdrawn from the hottle in a second, without injury to the Stopper. Therefore, it will be a great saving to Mineral Water Manufacturers, as hy the old way of extracting the Stoppers from the Bottle when necessary, very often the Indiaruhher is specified, and the time takes by this slow process is worth more than the Bottle itself; so that in many intances Bottles with spoiled or dirty Stoppers are put asid as worthless stock.

as worthless stock.

Figs. 1 and 6 Stoppers, when invoiced without Bottles, are ready fitte with the rubber washer on, and are easily inserted into the Bottle by the simple pressure of the thumb, the washer at the same time folding in the hollow part of the stem, when passing into the Bottle. They ar the only Stoppers which require no tool to fit into the Bottle; and when a Bottle breaks, which seldom occurs, the Stoppers are alway fitted with washer and ready to he inserted in a new Bottle. Therefor they are the most durable and inexpensive Stoppers in the Trade.

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Soda, Potass, Seltzer, Lemonade, Aromatic Ginger Ale. For Gout; Lithia Water, and Lithia and Potass Water. Corks hranded—"R. ELLIS & SON, RUTHIN," and every Label is registered, and bears their Name and Trade Mark.

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SODA, POTASH, SELTZER, AERATED (without Alkali), and LITHIA WATERS,

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Without Gasometer, with automatic distribution of the acid. The only ones which work under a regular pressure as long as the operation lasts.



Short lever. PRICE -

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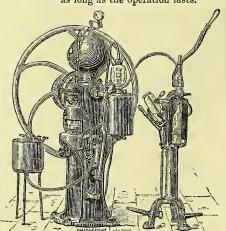
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English best of m de ŝ 2 guaranteed

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Cane or Wire covered.

Complete Plant, Model No. 1, Showing the Generator with Combination filler (for bottles and syphons), Price £48. Production 1,200 syphons daily. PROSPECTUS FREE ON APPLICATION.

Has a

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Powders for the Two-hottle Apparatus (Ten

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APOLLINARIS WATER, 25/- Hpr., 50 bts.

30/- Hpr., 100 3-bts.

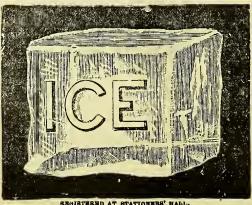
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Professor Frankland's report with analysis:—
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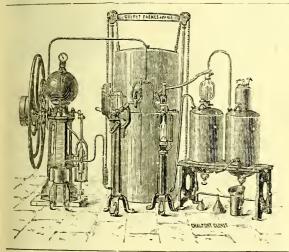
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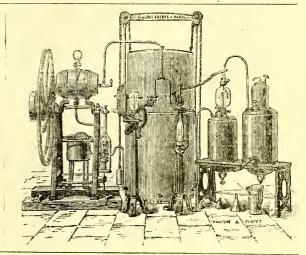
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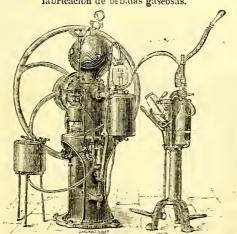
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para producir bebidas gaseosas instantáneamente. Cualquiera puede usarlo.



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SYPHONS AND SELTZOGENES,

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THE

IDRIS SELTZOGENE.

Unequalled in Style and Finish.

CANE OR WIRE COVERED.



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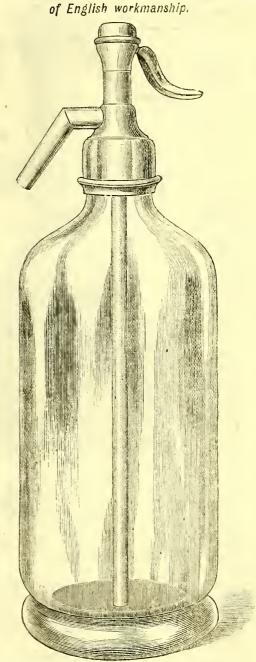
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WEIGHT OF THE CASES:

Cases containing

6 8 pints about 90 kilos.

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FIRST ORDER OF MERIT

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To ensure the purchase of the genuin celebrated

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which do not cost more than the imitations observe on the shoulder of the apparatu the words

"VERITABLE SELTZOGENE D. FEVRE,

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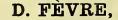


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D. FEVRE SELTZOGENES AND POWDER!

For immediate production of Soda Water, Eau de Vichy, Sparkling Lemonade, & Aerated Wines.



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Celebrated D. Fèvre Seltzogene. Liberal discount allowed.

Case and Packing ... 12 Seltzogènes, 3 pint size ... 4s. 0d. net.

CELEBRATED D. FEVRE POWDERS

FOR THE SELTZOGÈNES.

Pure Tartaric Acid and Bicarbonate of Soda in the highest state of perfection.

3 pint, per dozen boxes of 12 charges, 24s. 3 pint, per dozen boxes of 10 charges, 20s. 6d.

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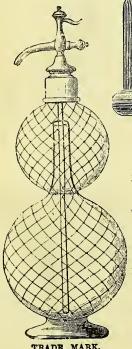


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D. FÈVRE SELTZOGÈNES. 8s. 6d. per dozen.

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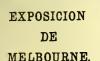


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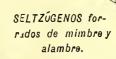
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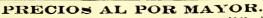


D. FÈVRE,

398 RUE ST.-HONORÉ.
PARIS,

Unico inventor y propietario del articulo y su nombre "SELTZO-GENO,"

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Ahi gado, Fabricante.



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Se da un descuento liberal.

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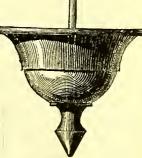
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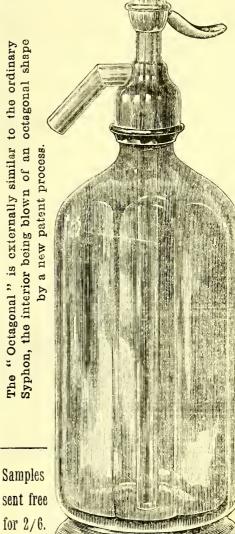
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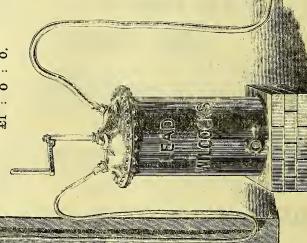
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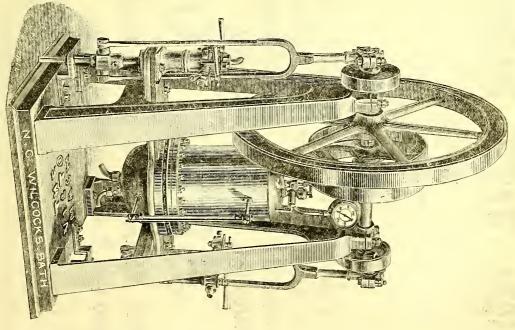
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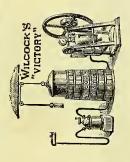
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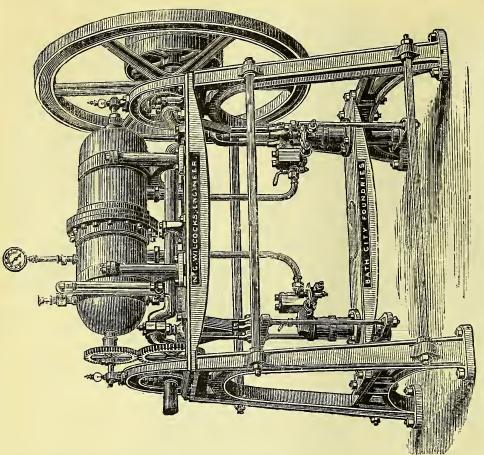
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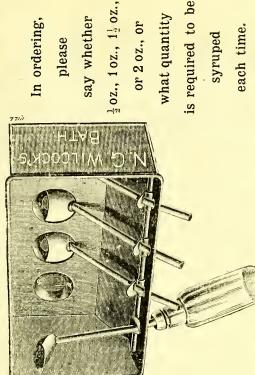
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ONLY MEDAL, International Food Exhibition, London, 1880

GOLD MEDAL, Calcutta Exhibition, 1884.

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THE COMPOUND FORTIFIED ESSENCE

Specially adapted for the Manufacture of the

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This Essence, which is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the manufacture of the finest Ginger Beer and Ginger Ale. It imparts, with the exquisite Ginger Aroma of the above-mentioned Essence, a peculiarly fine fruity flavour combined with the fullest amount of fragrance and pungency.

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This Essence is a combination of the Finest Flavours, and imparts with the Ginger, a most exquisite Aroma. Trade Price, 8s. per lb.; 12 lbs. and upwards, 7s. 6d.

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This Essence is a complete Bouquet of the Finest Ginger, Lemon, and other flavours in a highly concentrated state. Ginger Beer and Ginger Ale made with this Essence will possess an amount of Aroma, Flavour, and Quality that have hitherto been without precedent, and that will be sure to command a large sale.

THE COST IN MANUFACTURE IS ABOUT ONE FARTHING PER DOZEN BOTTLES. Trade Price, 9s. per lb.; 12 lbs. and upwards, 8s. 6d.

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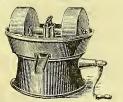


PAINT AND COLOUR MANUFACTURERS,

AND OTHERS.

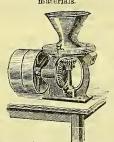
HAND EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.



NEW DRUG MILL.

For Ginger, Roots, and all kinds of friable materials.



NEW HORIZONTAL MIXER,

For Amalgamating Compounds, &c. (made with



HAND MIXING AND CRUSHING PAN MILL.

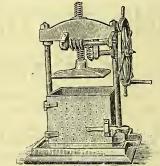
For Ointments,



Powders, &c., &c.

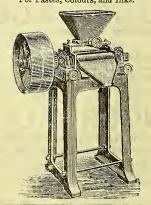
COMPOUND PRESS.

For Tinctures, &c. (made in Wood and Iron).



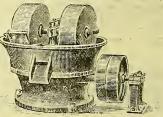
NEW GRINDING MILL,

For Pastes, Colours, and Inks.



POWER EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.



HORIZONTAL MILL

For Dry Powders.



IMPROVED PAINT MILL.

For Mixing and Grinding Colours in Water or Oil ready for use.

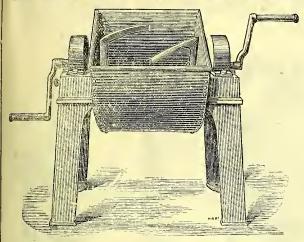


MACHINES FOR SPECIAL PURPOSES, EVAPORATING PANS, &c., MADE TO ORDER.

Prices and particulars on application to

FOLLOWS & BATE, LIMITED, Engineers, DUTTON STREET WORKS, MANCHESTER.

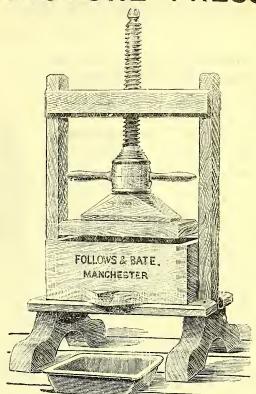
IMPROVED PATENT POWERFUL



These Machines are invaluable in a variety of trades; they possess many advantages. The hlades, which are of great strength, revolve in different directions in the trough, so that however stiff the material may be it cannot be carried round in a lump. They are set at certain angles, and the result is a peculiar motion which mixes with astonishing rapidity. The mixing qualities may he easily tested by putting some flour into the trough and adding a lump of butter. After a few revolutions of the handle the hutter will entirely disappear as a lump, but all the flour will be of a slightly yellow tinge, proving that the hutter has been equally rubbed in throughout.

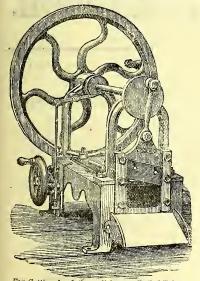
The trough is fitted with a catch which, when drawn, turns the trough upside down without stopping the machine and empties the contents into IMPROVED

MIXING MACHINE. TINCTURE PRESS



Made in Wood or Iron, to hold from 1 Gallon and upwards .. Price from 50/ each.

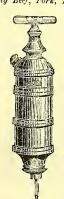
IMPROVED PATENT TOBACCO CUTTING MACHINE.



For Cutting Leaf, Cavendish, and Rolled Tobacco. These are the only Machines that do not require a wood block for the knife to cut upon, by which improvement the cutting edge of the knife remains sharp much longer than usual. They are Self-feeding, and can be regulated in a moment to cut different sizes of cuts from very fine to coarse. They are well adapted for Cigarette Manufacturers.

PATENT SALTING INSTRUMENT MEAT PRESERVER,

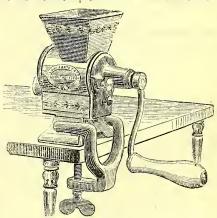
For Curing Beef, Pork, Tongues, &c.



By the aid of this Meat Preserver, any joint of meat, however large, can be salted instantly, and so completely that it may be dressed forthwith, or kept for any length of time; this can he done in any climate within the tropics, and even when decomposition is about to commence.

PATENT

MASTICATOR OR DINNER MINCER.



This beautiful little Machine is often recommended by medical men to those who have lost their teeth and are unable to masticate their food properly.

Life and health are preserved by its use.

Glass Enamelled 21/ each Ditto, Electroplated Fittings 42/ ,,

MACHINES FOR MAKING POTTED MEATS, ETC.

FOLLOWS & BATE, Limited, Engineers, DUTTON STREET WORKS, MANCHESTER.

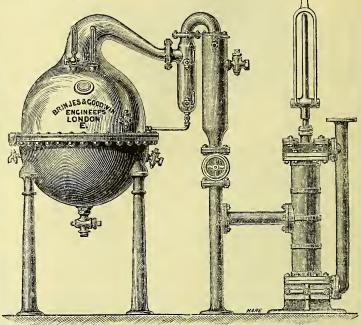
VACUUM BOILING, EVAPORATING OR CONCENTRATING

This apparatus is used for boiling and evaporating at very low temperature, whereby the product is not deteriorated by excessive heat, which frequently occurs in other Evaporators

Made in Copper or Iron, from 1 ft. to 12 ft. diameter

Several in work for years. All kinds of Pans, either stationary or tilting, made to order.

PRICES according to size and other particulars.



BRINJES & GOODWIN, WHITECHAPEL ENGINE WORKS, FIELDGATE STREET, LONDON, E.

E "SIMPLEX" PILL MASSER.

Eastern Dispensary, Leman Street, London, E., May 29, 1884.

Gentlemen,-I have long wished to meet with a really efficient MECHANICAL substitute for the Pestle and Mortar. Your "Masser," in my hands has been so satisfactory, that I felt justified in introducing it to the notice of the Dispensary Department of the London Hospital.

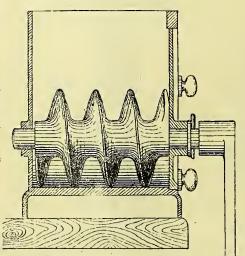
There it has been highly appreciated—its Time and Labour Saving qualities at once proving its

I remain, yours faithfully,

C. W. LEAPINGWELL, M.R.O.S., Eng.,

Resd. Med. Officer, Eastern Dispensary

To the U. M. & C. M. Co., Ld., Queen Victoria Street.



Made in sizes to mix from \frac{1}{2} lb. to 20 lbs. at a time.

The UNIVERSAL MIXING & CHOPPING MACHINE CO., LP 11 QUEEN VICTORIA STREET (Room 505), LONDON, E.C.

AS EXHIBITED

AT THE

INTERNATIONAL HEALTH EXHIBITION, 1884.

ALSO

POWDER MIXERS. CRUSHERS. MEAT CUTTERS, SAUSAGE MACHINES,

&c., &c.



ASKHAM BROS. & WILSON,

LIMITED,

SHEFFIELD.



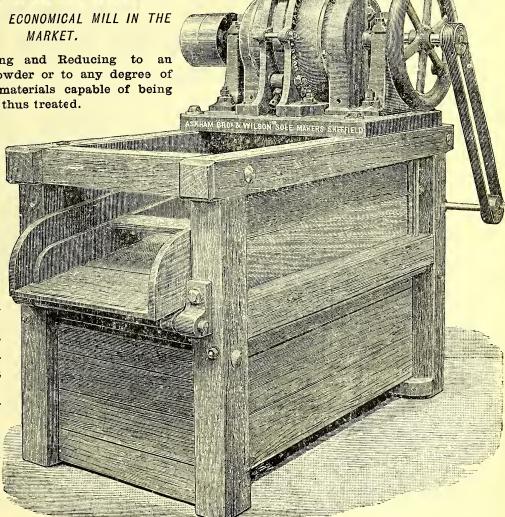
For Pulverising and Reducing to Impalpable Powder or to any degree of Fineness, all materials capable of being thus treated.

Simple, Efficient, Durable,

combined with Small Cost.

Readily put together and kept in order. Requiring very little power.

Write for full particulars.



B SIZE, COMPLETE WITH STAND.

Specially suitable for Pulverising Bone Ash, Plaster, Dry Soap, Fuller's Earth, Glass, and any kind of Chemical Crystals, &c.

IMPORTANT REDUCTION in the WHOLESALE PRICE of LAMPS, FROM OCTOBER 1, 1884.

SAMUE **CLARKE'S**

PYRAMID NURSERY LAMP FOOD WARMERS



MOSCOW EXHIBITION, 1872

1st Award, First Grand Silver Medal to Samuel Clarke, London, for his Patent Pyramid Night Lamp Food Warmer. 2nd Award, First Grand Silver Medal to Samuel Clarke, London, for his Patent Pyramid Night Lights.

PRIZE MEDAL AWARDED, LONDON, 1873.
PRIZE MEDAL AWARDED, PARIS EXPOSITION, 1867.

SILVER MEDAL AWARDED AT THE HEALTH EXHIBITION, SOUTH KENSINGTON,



PATENT MID NIGHT LAMPS. THE BURGLAR'S HORROR!!

RETAIL PRICE, 1/- EACH.



NOTICE TO THE TRADE.

Dealers having any PYRAMID Food Warmers, or PYRAMID Night Lights, in an unsaleable condition from exposure in the Shop, can have them exchanged for NEW ONES, without any CHARGE, by sending them Carriage Paid to the Patentee, S. CLARKE, Pyramid Night Light Works, Child's Hill, London,

Show Cards and Counter Bills will be forwarded CARRIAGE PAID on application by letter or post card.

REDUCED PRICES .- NET CASH WHOLESALE. No. 1 Holds Half-a pint Food, besides Water No. 2 Holds Three-quarters of a Pint Food, besides Water No. 3 Holds One Pint Food, besides Water Clarke's Hot-water Lamps 30s. Per Dozen. 27s. per dozen. 30s. ", Price 3s. 6d. each ,, 5s. 0d. ,, 363. 42s. 5s. 0d. ,, 6s. 0d. ,, 2s. 6d. ,, Pyramid Night Lamps, Lacquered or Bronzed

— Porcelain Period Extras.—Porcelain Panakins, No. 1, 8s., No. 2, 9s., No. 3, 10s. per doz. | Tin Panakins | No. 1, 8s., No. 2, 10s., No. 3, 12s. per doz. | Clear Glasses, 4s. | Ronghed, 6s. | Opaline, 6s. | Opaline, 6s. | " 1s. 0d. " 83

PATENT PYRAMID NIGHT LIGHT WORKS, CHILD'S HILL, LONDON, N.W.

AMERICAN DEPOT: 25 & 27 EXCHANGE ALLEY, NEWARK, NEW JERSEY, U.S A.

PATENT PYRAMID NIGHT LIGHT WORKS, CHILD'S HILL, LONDON, N.W.. July, 1884.

DEAR SIRS,—Permit me to call your special notice to the above, showing the great reduction in the wholesale prices of Pyramid Nursery Lamp Food Warmers and Pyramid Night Lamps, from the 1st October, and to the very large profit they bear to the retail dealer.

I wish also to call your attention to the note above, showing the exceptional advantages in selling my goods.

Orders for Lamps of not less than a dozen will be sent in a free case, carriage paid, to any part of the Kingdom.

Soliciting your early order, to be executed at the reduced prices,

I am, dear sir, yours obediently,

SAMUEL CLARKE.

IMPORTANTE REBAJA en el precio por mayor de las LAMPARAS

SAMUE CLARKE,

LAMPARILLAS "PYRAMID" PARA CALENTAR LOS ALIMENTOS

(PATENTES)

EXPOSICION

Primera Becompensa, Primera Gran Medalla de plata à Samuel Clarke de l'ondres por su Lamparilla "Pyramid" de noche, ac Patente, para calentar los alimentos.

Segunda Recompensa, Primera Gran Medalla de plata à Samuel Clarke, Londres, por su Lampara calentar los alimentos.

MEDALLA DE PREMIO CONCEDIDA, LÓNDRES, 1873. MEDALLA DE PREMIO CONCEDIDA, EXPOSICION DE PARIS, 1867. MEDALLA DE PLATA CONCEDIDA EN LA EXPOSICION INTERNACIONAL DE HIGÍENE, SOUTH KENSINGTON,



DE PATENTE.

El terror de los ladrones!!

Precio al por menor 5 rs. cada una.



ADVERTENCIA AL COMERCIO.

Los tenderos que tengan Lamparillas "Pyramid" ó lamparillas "Pyramid" para calentar alimentos que sean invendibles por haberse deteriorado estando de muestra en el escaparate pueden cambiarlas por OTRAS NUEVAS sin cargo alguno, enviándolas á S. CLARKE, poseedor del privilegio, Pyramid Night Light Works, Child's Hill, Londres, N.W.

Se remitirán francos de porte tarjetones de muestra y anuncios de mostrador al que los solicite.

POR MAYOR

No. 1 Contiene medio cuartillo de alimento ademas de agua
No. 2 Contiene tres cuartos de cuartillo de alimento ademas de agua
No. 3 Contiene un cuartillo de alimento, ademas de agua
Lamparillas de Clarke para calentar agua
" "Pyramid" de Clarke de noche, barnizadas ó bronceadas
Extras.—Tarteras de porcelana, No. 1, 40 rs., No. 2, 45, No. 3, 50 la do
Cubiertas No. 1, 10 rs., No. 2, 45, No. 3, 22
1, 10 15, 10 15, 10, 10, 5, 22 ,,

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0 la doc. 2 ,,	Ϊ	Tarte Crist

135 la docena. 150 rs. la docena. 180 " 90 40 ,,

PRECIOS REDUCIDOS.

AL CONTADO.

eras de Hojalata ... No. 1, 40 rs., No. 2, 50 rs., No. 3, 60 rs. la doc. ales claros, 20 rs. ... Opalina, 30 rs. ... Opalina, 30 rs. ...

PATENT PYRAMID NIGHT LIGHT WORKS, CHILD'S HILL, LONDRES, N.W.

POR MENOR.

Precio 17½ rs. cada una.

25 30

DEPÓSITO AMERICANO: 25 Y 27 EXCHANGE ALLEY, NEWARK, NEW JERSEY, E.E., U.U.

PATENT PYRAMID NIGHT LIGHT WORKS, CHILD'S HILL, LONDRES, Julio 1884. MUY SENORES MIOS.—Permitanme llamar su atencion especial al anuncio que figura arriba en que se demuestra la gran rebaja que se ha efectuado en los precios al por mayor de las Lamparillas "Pyramid" de noche, y en las lamparillas "Pyramid" para calentar alimentos, desde el 1ºº de Octubre, y 4 los grandes benefi ·ios que ofrecen al comprador por menor.

Tambien debo llamar su atencion à la nota que demuestra la gran ventaja que tienen los vendedores demis manufacturas.

Los pedidos para mas de una docena de lamparillas se remitirán en una caja porte pagado à cualquier parte del Reino Unido.

Solicitando sus prontos pedidos que se ejecutarán à los precios reducidos,

Soy de Vd. ato. S. S. Q. B. S. M..

SAMUEL CLARKE.

GOLD MEDAL PORPOISE OIL

A SUPERIOR PREPARATION

For Waterproofing, Softening, and Preserving Boots, Harness, Leggings, Machine Belting, Fire Hose, &c. Awarded 3 First Prize Medals, 2 Gold, Does not prevent the boots blacking. Free from unpleasant odour. Restores the nature and softness to leather which it loses in wear. Put up in elegant style, and always gives satis action. This, i.d., 2d., id., ls., and 2s. 6d. Special tims for export. Show-cards, transparencies, &c., supplied. Handsome Show Cases for first orders of 50s. For further particulars see page 64, in 1885 Diary. Wholes de from Wholesale Houses, and

JOHN T DALES, 287 CRYSTAL PALACE ROAD, LONDON, S.E.

DE ACEITE DE PUERCO MARINO, PREM'ADO CON MED'LLA

UNA PREPARACION SUPERIOR

Para conservar, ablandar y hacer impermeables los botines, guarniciones, polainas, correas, margas de incendio, etc. Recompensado con 5 medallas de premio, 2 de oro.

No impide el uso de lustre. Es libre de olor desagradable. Devuelve la blandura natural al cuero si la ha perdido con el uso. Preparado en cajas elegantes. Siempre da satisfaccion. Latas 10, 20 y 50 c., 5 rs. y 12 rs. Latas especiales para la exportacion. Se remiten tarjetones de muestra, cristales de idem, etc. Con el primer pedido que llega à 220 ss. se envia una caja mostrador hermoso. Por mas detailes véase la p. 64 en el Diario para 1835. Al por mayor de los almacenes y de JOHN T. DALE, 237 Crystal Palace Road, LÓNDRES.

Avoid Imitations under Various Names-Use only the Standard and Original Article.

A NECESSITY in every Family. It BLACKS and POLISHES Ladies' and Children's Boots without Brushing, being supplied with a Sponge attached to the Cork for instant use.

S. DEED & SONS NEW OXFORD STREET, LONDON. SOLE WHOLESALE AGENTS FOR THE UNITED KINGDOM.

BIRROTEH'S Distillery FROM FUSER OUT OF STREET OWN THE BOOK OF STREET OF STREET OWN THE BOOK OF STREET OWN THE STREET Qualities for Quentity RXPORT PIPIL PRICES THE HOLD BURELPH OF L

WASON. JONES KERS.

Regent Wharf, Copperfield Road, MileEnd, London, E. FROM RATCLIFF.

APPLICATION. SAMPLES AND PRICES UPON

Rect. (WOOD).

AT LOWEST PRICES OF THE DAY.

MACNAIR & CO.,

20 DUTTON STREET, MANCHESTER.

SHELLACS, GUMS & SPIRITS (Pure and Methylated).

{||&FINISH

J. & W. HARVEY & CO., Distillers, Yoker, GLASGOW. LONDON AGENTS-JAMES CHAMBERS & CO., 23 BIRCHIN LANE, CORNHILL, E.C.

PURE SPIRITS of WINE

For Tinctures, Essences, Perfumes, &c.

MACNAIR

RECTIFIERS.

STREET, MANCHESTER, 20 DUTTON

Beg to call the attention of Chemists and Druggists to their undermentioned prices of Pure Spirits of Wine:—

-Specific gravity. Price per gall. Strength per cent. 63 over proof 0.8238 20/10 20/4 0.8384 0.8384 60 ,, 19/10 55 50 ,, 0.8482 19/4

Jars to be returned or paid for. Cash on Delivery. For Exportation, Cask included, 4/, 60 o.p., F.C.B.

Orders from the country must be accompanied by a remittance, including the price of the Jars, which are charged as follows:—2 galls. 2/6; 4 galls. 4/0; 5 galls. 5/0; 6 galls. 6/0. When the Empties are returned, the money

Also ABSOLUTE ALCOHOL. Prices on application.

PRONK, DAVIS & CO.,

ANILINE DYE AND CHEMICAL AGENTS, 41 GREAT TOWER STREET BUILDINGS. LONDON, E.C

Specialities for Varnishes and Wood Stains.

THE FINEST AND CHEAPEST

SPIRIT BLACK

IN THE MARKET.

BRONZE POWDER, GOLD AND METAL LEAF. Vermillion, Vermillionette, Ultramarine.

CUDBEAR, INDIGO PASTE, JEWELLERS' ROUGE.

Electric Polish! Electric Polish

For cleaning Silver, Copper, Brass, Steel, & all bright metals, diminished labour, less trouble and expense, use

ELECTRIC POLISH, **TEMISS**

which will make old and tarnished articles bright as new. It is a liquid preparation, and entirely different to anything yet introduced. It contains no acid, mercury, or injurious chemicals, easily applied, and at once produces a bright, mirror-like surface, and lasting. Tradesmen and others who require a polish for their Scales, Weights, Brass Stalls, &c., it is invaluable. For domestic use, Silver, Electro Plate, Steel, Door Handles, &c., it will prove a great boon. When once tried, it will never give place to any other. An outlay of 6d. for a bottle will never be regretted. Price 6d. and 1s. per bottle, of all Chemists.

SOLE MANUFACTURER,

D. J. LEWIS, Chemist, &c., High St., Acton, W. Wholesale London Agents—Sanger & Sons; G. B. Kent & Sons; S. Maw, Son & THOMPSON; and SOUTHALLS, Birmingham.

The Proprietor can with every confidence recommend this to the Trade.

3 Prince of Wales Crescent, Kentish Town,
London, N.W., January 16, 1884.

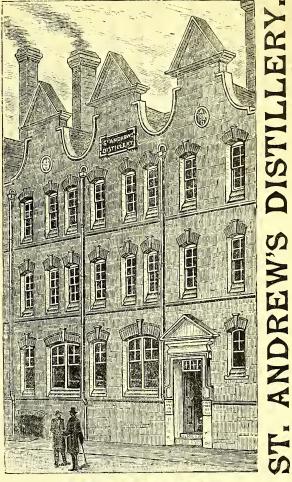
Sir,—I have much pleasure in informing you that the bottle of
"Electric Polish" I bought of you does even more than you promised it
should do. I gave it a fair trial with gold, silver, and hrass, and found it
to give a far more lustrous and lasting polish than any paste or powder I
ever tried, and when once a bright surface is obtained it is some considerable time before it becomes dull again. It needs only to be known to be
appreciated. You are at liherty to make what use you like of this letter,
and I trust the sale of your Polish will continue to increase, as such a
very useful and economical preparation deserves to.

I am. Sir, yours truly.

To Mr. LEWIS, Chemist, &c.

I am, Sir, yours truly.
M. HERSANT.

Mrs. Connad Howell has much pleasure in testifying to the excellence of the Electric Polish prepared by Mr. Lewis. It seems to suit all metals equally; it has completely restored some tarnished silver which Mrs. H. was about to send to a Silversmith to be cleaned. No one who tries it can doubt the result. tries it can doubt the result.



W.Is

Guaranteed pure, thoroughly rectified, and made from English Grain Spirits.

60 op., 20s. 9d. per Gal.

56 op., 20s. 3d.

TINCTURE SPIRIT.

Useful for all purposes where absolute purity is not necessary.

60 op., 20s. 6d. per Gal.

56 op., 20s.

1s. per gallon discount for Cash with order. Further allowance for quantity.

STEAM STILLS

GEORGE PHILLIPS

Road, LONDON, Clerkenwell

GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD,

SONS,

Glass Paper, Emery and Glass Cloth; Emery, Black Lead, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

OAKEY'S WELLINGTON KNIFE POLISH.

Prepared expressly for Oakey's Patent India-Rubber Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines. Sold in Packets, 8d. each; and Tins, with perforated Tops to prevent waste, 6d., 1s., 2s. 6d., and 4s. each. OAKEY'S NON-MERCURIAL SILVERSMITH'S SOAP,

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each. OAKEY'S POLISHING PASTE. For Cleaning Brass, Copper, Tin, Pewter, &c., &c. Tins, 1d., 2d.; Pots, 6d. and 1s. each.

WELLINGTON BLOCK BLACK LEAD. In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London. S.E. Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.

SANDERSON WHITE LEAD, PAINT, COLOUR AND VARNISH

HUMBER BANK, ROPERY ST., AND JACKSON ST., HULL.

PAINTS MIXED READY FOR USE, ALL COLOURS,

Best Quality, in 1, 2, 4, 7, 14, and 28 lb. Tins, 34s. per cwt., carriage paid. SANDERSON'S IMPROVED DAMP-RESISTER, for the effectual cure of damp walls.

SANDERSON'S IMPROVED CAUSTIC PASTE, for removing old paint, varnish, &c.

PINK PRIMING PAINT, EXTRA STRONG PATENT DRYERS, PUTTY, &c., &c.

SHOW CARDS, SAMPLES. AND PRICES ON APPLICATION.



HOMAS S. JACKSON & SONS,



VIENNA.

READY-MIXED

In 1, 2, 4, 7 and 14 lb. Tins.

These goods are packed in the "Patent Self-opening Tins," which require no cut-ting. Tins painted to correspond with contents, and enclosed in printed wrappers.

28 USEFUL and SALEABLE TINTS. Guaranteed to Dry Well.

HANDSOME SHOW BOARDS

(Framed and Glazed), with Specimens of the Colours, supplied.

ICES AND SAMPLE CARD ON APPLICATION.

(Every description).

JAPANS.

BRUNSWICK AND BERLIN BLACKS. TEREBINE,

FRENCH POLISH.

WHITE AND BROWN HARD SPIRIT VARNISHES.

KNOTTING. LACQUERS.

DRYERS and of the finest GROUND COLOURS quality.

DRY COLOURS, all Prices and Shades.

IMPORTERS OF OCHRE, ULTRAMARINE. &c.

LONDON.

"SPECIAL." MAHOGANY, OAK, WALNUT SATINWOOD, ROSEWOOD, EBONY.

Draught, or packed in 6d. bottles (8 oz.), capsuled and wrappered. Also in powder.

SHOW BOARDS,

With specimens of the Stained Woods, supplied.

The demand for these Stains is steadily increasing. They possess great richness and truth of colour, and

ARE OFFERED AT A REASON-ABLE PRICE.

NOTICE.—All communications should be addressed to the Office—

LAYTON'S BUILDINGS, 199 HIGH STREET, SOUTHWARK, LONDON, S.E.

There is no connection with any firm of a similar name.

ESTABLISHED

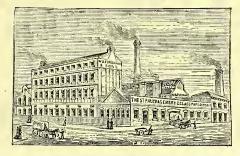
BY APPOINTMENT TO THE ROYAL DOCKYARDS. GOVERNMENT AND RAILWAY CONTRACTORS.

FORDHAM & SONS

ST. PANCRAS EMERY & GLASS PAPER WORKS. 36-40 YORK ROAD, KING'S CROSS, LONDON, N.

FSTABLISHED 1825.





TELEPHONE 7514.



FIRST-CLASS CERTIFICATE & SILVER MEDAL, CALCUTTA EXHIBITION, 1884. MANUFACTURERS OF

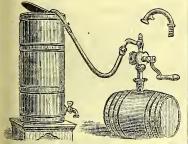
Glass Paper, Emery and Glass Cloth, Knife Boards, Knife Powder, Wood Taps with square Corks, Furniture Polish, Plate Powder Crocus, Tripoli, Rouge, Silver Soap, Brunswick and Berlin Black, Sieves, the St. Paneras Self-acting Washing Machine, Zinc Jugs (superior) Polished and Japanned, extra strong Zinc Syringes, "Fly Cheat" Meat Cages, New Sash Tool Racks, "Paragon" Plate Racks, the "Safeguard" Steps, &c.

IMPORTERS OF AND DEALERS IN
Glus, Black Leads, Pumice, Rotten Stone, Lamp Cottons, English, American, and German Woodware. Faro Baskets, Wire Nails, Carpet Brooms, Chamois Leathers, Gloves, House Flannel, Bellows, Feather Dusters, Mouse Traps, Sponge, Tandstickors, Safety and Parattin Matches, Vestas, &c.

Sole Agents for London and Suburbs for JAMES' DOME BLACK LEAD.
Sole Agents for the United Kingdom for GARD & CO.'S POLISHING CLOTHS.
Sole Agents for London and Suburbs for CANNON'S SIZE AND GLUE POWDER.
Sole Agents for London and Suburbs for HAND-MADE SCOURING CLOTHS (REGISTERED).
Sole Agents for London and Suburbs for EASTMAN'S KITCHEN CRYSTAL SOAP.

Sole Agents for London and Suburbs for EASTMAN'S KITCHEN CRYSTAL SOAP.

HAND ROTARY PUMP



TESTIMONIAL. Spring Place, Kentish Town,

October 20, 1883. Messrs. W. B. Fordham & Sons,

York Road, N. DEAR SIRS, — We have pleasure in stating that we have used your Hand Rotary Barrel Oil Pumps in several of our establishments for some time. They have given, and continue to give, the greatest satisfaction. tion. We strongly recommend their use to all deders in Mineral Oils, &c. We are, yours faithfully. (Signed) WALTON, HASSWLL & PORT.

1. Discharges 10 galls, per minute ... 60/ each. 2. " 13 " ... 75/ each.

KITCHEN CRYSTAL SOAP.

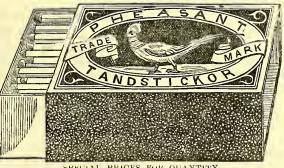


In Cases of 100 Bars, 2'/9 per case, net

The most reliable Tandstickor in the Market is the rosepink, frame-dipped

"PHEASANT."

Packed in dozens and half gross Packets, 1s. 4d. per



SPECIAL PRICES FOR QUANTITY.

The most reliable SAFETY Tandstickor in the Market is the brown, framedipped

"OLD TOM CAT."

Packed in dozens and one gross Packets, 1s. 5d. per

Small Pocket Safeties, 1/5; Large Safeties, 3/6 & 4/; Extra Large Flat Safeties, 8/6 per gr. PARAFFIN MATCHES AND VESTAS, ALL SIZES AND SEVERAL MAKES, IN STOCK.

A very large Stock of Chamois Leathers, Gloves, House Flannels, Twines, Woodware, Lamp Cotton, French Floating Lights, &c.

GLUES & GELATINES, UPWARDS OF 100 TONS IN STOCK.

(REGISTERED)

IETALLIC POWDER

Is the Best, Cheapest, and most effective Powder for Cleaning, Polishing, and Preserving METALS (especially BRASS) & GLAS It is used by the Life, Horse, and Dragoon Guards, the Metropolitan and Volunteer Fire Brigades, &c., &c.

Sold in 1d. Packets, and 6d. and 1s. Boxes.

Proprietors, J. F. BAUMGARTNER & CO., 212 Newman Street, Oxford Street, London, V



acturer offers his genuine Metallic Polish Powder. The best in the World, and never surpassed. Made from the Po ish Powder (Brillautine). Awarded.

ONLY TO BE OBTAINED FOR HOME AND EXPORT TRADE DIRECT FROM

FRITZ SCHULZ, Jun., Chemical Manufacturer, LEIPSIC

SCOTT & CO., Stratford, London, 1

ESTABLISHED 1863.

Flowers of Sulphur (Sulph. Sub.) 7 " Crown Virgin Roll and Rock Sulphur Brand.

Sulphurous Acid and other Mineral Acids, &c

YATES.

Chemists' Shop Fitter, Shop Front Builder, and Glass Show Case Maker.

DENTIST CASES.

Plans and Estimates supplied for Work in any part of the Kingdom.

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See July issue of The Chemist and Druggist for List of Shops Fitted by W. S. Yates.

The Celebrated DANGERFIELD'S

IGNITING MATCH CASE.



PRONOUNCED PERFECTION.

It has no equal in Mechanical Construction, Workmanship, Quality of Material, Neatness, Compactness, Convenience, and Low Price. Secured by United States and Foreign Patents. Prices the world over: —XX Tin, with Oride Slide, 1/ each per doz. 7/4; Solid Nickel Silver, 1.8 each, per doz. 11.6; Solid Nickel Silver, with Cigar CI pper, 2/ each, per doz. 14/7. Sent post free to any part of the world on receipt of price (P. O. O.).

FRANCIS S. DANGERFIFLD.
Proprietor and Sole Manufacturer, AUBURN, N.Y., U.S.A.

A thoroughly good article for Cleansing Fabrics.

Paint, Pitch, Grease Spots, &c., Easily and Instantly Removed.

MORE VILEBENZINE !!

QUILLAIA is Snow-white, and is delightfully fragrant.

Metallic Boxes ONE SHILLING at Retail

WHOLESALE OF LEADING LONDON HOUSES.



DRUGGISTS' WAX, **BOTTLING WAX** LETTER WAX PACKING

"BEE" BRANI SOLD BY ALL Wholesale Druggists Sundrymen.

SOLE MANUFACTURERS GEORGE WATERSTON & SONS. LONDON AND EDINBURGH

Full Weight—Loose, at 7s. per gross; in lift-off boxes, 7s. 6d.,; and in hinged boxes, 8s. 6d., per dozen.

CHUBB'S Extra VIOLET POW (WARRANTED PURE STARCH POWDER), In 1d. Boxes, 6s, gross, and 2d. Boxes, 11s. gross, and in 1-lb. and 1-lb. Packets, 10d. per lb.

BB'S pared FUL

In 1d. Boxes, 5s. gross, and 2d. Boxes, 9s. gross, and in 3d. and 6d. Round Boxes, 1s. 6d. and 2s. 6d. dozen.
SUBJECT TO 15 PER CENT. DISCOUNT FOR CASH.

May be obtained through all the Wholesale Houses, or direct from CHUBB & CO., 29 OLD ST., LONDON, E.C. SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

F. GREEN & CO.,

PHOENIX

DRUG, SPICE, AND SEED MILLS,

BIRMINGHAM,

HAVE for many years given careful attention to the selection of Seeds, Spices, Roots, &c., used in the manufacture of Cattle Condiments and Veterinary practice generally, and, having special machinery for separating all extraneous matter before grinding, and careful dressing afterwards, they can guarantee purity and full strength.

SPECIALITIES.

Pure Crushed Linseed.

Finest quality from Screened Seed. No oil extracted.

Price, in 1 cwt. and 2 cwt. bags (free), 17s. cwt.

P);););););	Aniseeds Carraway Seed - Coriander Seed - Fœnugreek Seed - , , bright Cummin Seed - Charcoal, Vegetable , Willow -		40/ ,, 34/ ,, 13/ ,, 16/ ,, 42/ ,, 8/6 ,,	Powdered Gentian Root (finest) - 40/ cw ,, Columba ,, 45/ ,, ,, Galangal ,, 48/ ,, ,, Liquorice ,, (finest) - 36/ ,, ,, Turmeric ,, 32/ ,, ,, Grains of Paradise - 35/ ,, ,, Ginger, fine Cochin - 70/ ,, ,, Cloves 90/ ,,	· · · · · · · · · · · · · · · · · · ·
>	"		-	', "		,

PACKAGES, NEW SACKS, OR PATENT AIR-TIGHT CASKS COST PRICE, NOT RETURNABLE.

TERMS—Nett cash with order or Trade references.

Drugs, Spices, Seeds, &c., ground for the Trade.

ESTABLISHED 1824.



NEEDI

Gold Medal, Adelaide, 1881. Order of Merit, Melbourne, 1880 Diploma of Merit, Vienna, 1873.

Established over Half a Century.

For Cleaning and Polishing Brass, Copper, Tin, Britannia Metal, &c., &c.

Pickering's Furniture Polish, Plate Powder, Knife Powder, Brunswick Black, Razor Paste, Harness Blacking, &c.

Wholesale by London, Sheffield, Birmingham, and Wolverhampton Merchants, and Retail by Chemists, Ironmongers, and Grocers.

JOSEPH PICKERING SHEFFIELD. SONS.

EWENS' CLARIFIED LARD, MARROW, suets, and oils. SUETS, AND OILS.

JAMES EWEN & Sons are induced to give further publicity to these articles, the continued demand by all who have used them being satisfactory proof "that where purity of basis" in ointments, &c., is required, they are most desirable.

By their method of purifying, the fats are not chemically altered, but simply divested of all particles tending to decomposition, they are consequently available for the most delicate preparations.

Adeps. Benz. B. P. and Pharm. Lard (vide P. J. Vol. I. No. 8). Direct, "for Cash only," from

JAMES EWEN & SONS' CLARIFIED FAT WORKS. 5 HATFIELD STREET, STAMFORD STREET, S.E.;

Or through any of the Wholesale Houses, with their usual credit, at a small advance.

CAUTION .- See that each package bears their label with name and weight.

GUEST'S FURNITURE POLISH REVIVER. — Ar entirety new preparation, brilliant polish, little labour, and no finger-marks. In patent air-tight tins.

GUEST'S FURNITURE CREAM gives a brilliant polish with half the usual labour.

GUEST'S SILVERSMITHS' PLATE POWDER. new preparation, warranted to prevent tarnishing three times longer than any other.

GUEST'S CUTLERY POLISH gives a brilliant mirror-like lustre. Sold in perforated canisters

GUEST'S BRASS POLISH .- Splendid polish, rich colour, with little labour.

GUEST'S BRUNSWICK BLACK.

W. G. & S. have every confidence in recommending above to the public, and carnestly solicit a trial. Samples and price lists on application.

WM. GUEST & SON, NEPTUNE WORKS, PORTMAHON, SHEFFIELD.

AS USED AT ALL THE COVERNMENT MUSEUMS.

Saited for any substance, from glass and china to leather, wood, or iron, and the articles joined bear washing in boiling water.

The large range of materials to which this cement is applicable, its transparency, strength, and facility in use, and the readiness with which it adheres, renders it, without doubt, THE MOST USEFUL EVER INVENTED. It is equally applicable to articles of the coarsest or the most delicate construction.

The great success which attended its introduction, now more than 20 years ago, has given rise to a host of imitations, under as many various titles, some of these being of an exceedingly crude character, and most unsatisfactory to both vendor and buyer. The above celebrated Cement is uniformly propaged and neathy put no, and is graparanced to remain unchanged in any climate.

prepared and neathy put up, and is guaranteed to remain unchanged in any climate.

Professor ARCHER, Edinburgh.—"I can testify most unhesitatingly to its great utility in the various occasions which continually arise in Huseum work for a first-rate Cement. I have invariably found yours superior to all others, and have extensively recommended its use to all my friends."

Sold in bottles at 6d. and 1s. (equal to three of the smaller).

IM.PALPABLE AND DELICATELY PERFUMED.

This nnique Powder possesses the emollient properties of fullers' earth, free from colonr, and in a high condition of purity.

Dr. ALEX. MILNE, Edinburgh, in his recent book entitled: "The Child, and how to Nurse it," says of this favourite powder, "WE RECOMMEND IT IN PREFERENCE TO ALL OTHERS."

Sold in Boxes at 6d. and 1s. Wholesale at the Patent Medicine Houses and Druggists' Sundriesmen, or from W. J. FOULKES, OPERATIVE CHEMIST, BIRKENHEAD.

DE HARROP PARA ROPA,

Haciendo el almidonado fácil y agradable.

no puede adherir



Las cortinas de muselina, los vestidos, cuellos postizos, puños y todo género de lienzo fino, retienen su tesura y blancura por mucho mas tiempo añadiendo al almidon un poco del Lustre de

Dota con un acabado hermoso los percales de fantasia que tanto se gastan, y da á los colores mayor brillantez

Advertencia. - Guardense de las viles imitaciones. Cada paquete y caja lleva mi Marca de Fabrica depositada.

Se vende en paquetes á 10, 30 y 60 céntimos de peseta, y á 5 rs. Tambien en cajas grandes para hoteles, lavaderos, &c., á pts. 6.25, pts. 12.50 y pts. 25.00 cada una.

AGENTES EN LONDRES:-Messrs. Maw, Sons & Thompson, SANGER & SONS, BOURNE & TAYLOR, LYNCH & Co., &c.

W. KEMP & SON, HORNCASTLE.

PURE CRUSHED LINSEED,

CONTAINING ALL THE OIL. A strictly pure article. all other seeds, dirt, &c., being entirely removed. It is lightly crushed from a special kind of large bold seed, which gives a larger proportion of meal to husk than the ordinary commercial Linseeds. Price 18/6 per cwt., bag free. Special quotations for 5 cwts. and upwards.

NOTE.—This quality can be obtained from Messrs. Barclay & Sons, 95 Farringdon St., London, in 1-cut. bags at above price; smaller lots 20f cwt.

CRUSHED LINSEED No. 2,

Contains all the Oil, and is crushed from sound good Linseed, 17/6 per cwt., bags free.

CRUSHED LINSEED No. 3,

Contains all the Oil, and is crushed from sound good Linseed, 16/6 per cwt., bags free.

CRUSHED SICILIAN LINSEED.

The best for feeding purposes; merely requires scalding to make a stiff jelly, and when introduced at once creates a large demand; bags free.

PURE LINSEED MEAL,

WITHOUT OIL. Best quality only, 11/6 cwt., bags free.

All ground in our own mills, and always sent out freshly crushed.

Special Quotations for Quantity.

Above can be had with the Husk wholly or partially sifted out at an advanced price. Correspondence on this subject is invited. Applications for Samples solicited.

W. KEMP & SON, Seed Crushers, HORNCASTLE.



Harrop para ropa.

Highest Award, Philadelphia, 1876. Gold Medal, Berlin, 1877. Highest Award and only Medal, Paris Exhibition, 1878. Highest Award, Melbourne, 1881. Highest Award and only Medal, Frankfort, 1881. Highest Award and only Medal, Amsterdam, 1833.

Put on by Sponge attached to Wire and Cork in each Bottle. No Polishing Brush required. Dries in a few minutes. Can be used by any lady without soiling her fingers.

The "Satin Polish" is the most Elegant Article of the kind ever produced.

Ladies' Shoes, which have become Red and Rough by wearing, are restored to their Original Colour and Lustre, and will not soil the skirts when wet. Tarnished Patent Leather is improved by it.

For Travelling Bags, Trunks, Harness, Carriage Tops, &c., it is unequalled. It will not harden the Leather nor crack. It is not a spirit varnish. In Cartons, 4s. 6d. per dozen; 52s. per gross. Packed in Sawdust, 3s. 9d. per doz.; 43s. per gross. 2½%.

MAGIC AMERICAN

Is the best in the Market, and it can be used with good effect on Ornaments, Picture Frames, Iron and Fancy Work generally, as well as for Boots and Shoes. In Cartons, 7s. per dozen. 21 %. SOLD BY ALL WHOLESALE CHEMISTS AND DRUGGISTS' SUNDRIESMEN.

Factories: BOSTON; MONTREAL; 18 & 20 Norman's Buildings, ST. LUKE'S, LONDON.

SALE SURPLUS STOCK.

300 lbs. Job Lot of PURE CARMINE offered Extraordinarily low.

GOLD BRONZE POWDER, 500 lbs on offer at 3/6, 700 lbs. at 2/6 per lb.

SILVER LEAF, FINEST QUALITY, 150,000 offered at 11/ per 1,000.

PURE GOLD LEAF, at 37/6 per 1,000.

ABYSSINIAN GOLD LEAF, KEEPS ITS COLOR. 120,000 offered at 10/6 per 1,000.

ANILINE COLORS.

JOB LOT MAGENTA, BISMARCK, SCARLET, VIOLET ON OFFER, A BARGAIN. TRIAL POUND of Bronze and 1,000 of the Leaves supplied, or large Specimen of either parcel, 1/; allowed off first order. TERMS CASH. ZOAR SCHAPMANN, 22 Paradise St., Finsbury, London, E.C.

CHURCHILL'S

CORROSIVE COMPOSITION,

FOR REMOVING PAINT.

A vegetable Compound which far supersedes anything yet introduced for removing Old Paint, Varnished Paper, Grease from plain or moulded surfaces. Cleaning Stained or Smoked Marhle Chimney Pieces, &c. It is cleaner, a great saving in workmen's time, and gives more satisfaction than

CHURCHILL'S AMMONIA SOAP.

Instantaneous and Pertectly Inodorous.

254 LOWER BROUGHTON ROAD, MANCHESTER.

LISTS AND PRICES ON APPLICATION.

CRYSTAL CRYSTAL

DYES

BROWN
VIOLET
MAGENTA
PUCE
CRIMSON
BLUE
MAUVE
MAROON
PURPLE
LAVENDER
ORANGE
CARDINAL
SLATE



YELLOW
CLARET
CANARY
CERISE
GREEN
GREY
PONCEAU
SCARLET
PINK
ROSE
BLACK
REVIVER

These Dyes are specially manufactured for the purpose of affording to heads of families and others the means of Dyeing at home, for a small cost, Faded Articles of Wearing Apparel, &c. Silks, Ribbons, Feathers, Woollen Goods and Stuffs of all descriptions take the Dye readily. They are easy to use; they are economical in price. The colours are beautiful and brilliant, and anything can be dye with them in a few minutes. One Sixpenny Packet of the Crystals will go as far as six Sixpenny bottles of the ordinary Liquid Dyes Each colour will produce any desired shade of its own colour, according to the quantity used. There is sufficient in a Sixpenny Packet to Dye a Lady's Dress, or half-a-dozen Children's Frocks, or 100 yards of Ribbon, &c., &c.

6d. Boxes Crawshaw's Crystal Dyes.	In ½ gross (7 doz.) Counter Case with Glass Lid	48/- per gross
6d. Boxes Crawshaw's Crystal Dyes	In Boxes of 1 doz. (14)	48/- per gross
3d. Packets Crawshaw's Useful Dyes.	In ½ gross Cardboard Boxes	21/- per gross.
3d. Packets Crawshaw's Useful Dyes.	Mounted on Cards of ½ gross	21/- per gross.
2d. Packets Crawshaw's Useful Dyes.	In $\frac{1}{2}$ gross Cardboard Boxes	14/- per gross.
2d. Packets Crawshaw's Useful Dyes.	Mounted on Cards of $\frac{1}{2}$ gross	14/- per gross.
1d. Packets Crawshaw's Useful Dyes	In 3 gross Counter Case with Glass Lid	7/- per gross.
1d. Packets Crawshaw's Useful Dyes.	In ½ gross Cardboard Boxes	7/- per gross.
1d. Packets Crawshaw's Useful Dyes.	Mounted on ½ gross Cards	7/- per gross.
The Excelsior Penny Dyes. Mounted on good value for the money; suitable is	Cards of $\frac{1}{2}$ gross each. These Dyes are for low-class Wholesale Trade, and where	
Cheap Goods are required. There is	no Maker's Name on the Packets or Cards	5/6 per gross.
6d. Perfect Black Dye. In 4 gross Wood	l Boxes	48/- per gross.
3d. Perfect Black Dye. In 1 gross Wood	Boxes	21/- per gross.
SUPPLIED BY ALL	THE WHOLESALE HOL	USES.

E. CRAWSHAW & CO., 80 FANN ST., ALDERSGATE ST., LONDON, E.C.

NTES CRISTALIZADOS DE CRAWSHA

Castaño Violeta Magenta Lila Encarnado Azul Mauve Maroon Purpura Espliego Naranja Rojo Pardo Amarillo Clarete

Canario Cereza Verde Mate Ponceau Escarlata Clavel Rosa . Negro Restaurador

Estos tintes han sido manufacturados con el objeto de surtir las familias de tintes que les ofrecen el medio de teñir s poco coste y en sus propias casas los varios artículos de ropa, etc., que deseen. Pueden teñirse con facilidad cintas, sedas. plumas, géneros de lana y algodon de todas clases. Son de fácil manejo y sumamente económicos. Los colores son vivos y hermosos y la operación del tinte se efectua en pocos minutos. Son aplicables á toda clase de artículos. Un paquete de estos tintes, que cuesta 60 céntimos, durará mientras seis botellas de á 60 cs. de los tintes líquidos. Cada color producirá el matiz que se desee, segun la cantidad que se emplee. El paquete de á 60 cs. de peseta es suficiento para tenir un vestido de señora ó media docena de los de niños, ó bien 100 metros de cinta, etc., etc.

Las cajas de tintes cristalizados de Crawshaw que se venden al por menor á 60 céntimos, en caja de mostrador de 1 gruesa	Duros
(7 docenas) con tapa de cristal	12 La gruesa
	12 ,,
	5.25 ,,
	5.25 ,,
	3.50 ,,
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3.50 ,,
	1.75 ,,
Towns of the Control	1.75 ,,
	1.75 ,,
Los tintes "Excelsior" que se venden à 10 cs. Estos son muy barator; son apropósito para un comercio ordinario al por	
mayor en que la demanda es para un artículo barato. Los paquetes y cartones no llevan el nombre del fabricante.	1.90
	1.38 ,,
Tinte negro "Perfect" de \$ 60 cs. En cajas de madera de 1 gruesa	5.05
Tinte negro "Perfect" de à 30 cs. En cajas de madera de { gruesa	5.25 ,,

Pueden obtenerse en todas las casas al por mayor.

E. CRAWSHAW & CA., 80 FANN ST., ALDERSGATE ST., LONDRES, E.C.

22 PRIZE MEDALS AND CERTIFICATES.

JEYES' "PERFECT PURIFIER."

THE BEST AND CHEAPEST DISINFECTANT, DEODORISER, AND CLEANSER.

Sanctioned by H.M.'s Board of Trade, and H.M.'s Government of India.-Non-Poisonous and Non-Corrosive.

JEYES' SANITARY COMPOUNDS CO., LIMITED, 43 BANNON STREET, LONDON,

100 Rats destroyed for a Shilling by BARBER'S PHOSPHOR PASTE,

WRAPPED NEATLY FOR THE COUNTER.

Handsome, attractive Posters supplied; if conspicuously placed will command constant sale.





Guaranteed the world.

3d., 6d., 1s., 2s. 6d., and 5s. Tins. Also

BARBER'S VERMIN KILLER.

In 1d., 2d., 3d., 6d., and 1s. Packets. Kills Mice upon the spot.

Testimonial from Her Majesty's Ratcatcher, Hampton, Middlesex,

May 25, 1870.—

"I have been more than forty years employed at Hampton Court Palace, the Royal Stables, and other buildings in and around the Royal Parks, for the destruction of rats, mice, and other vermin. I have the entire charge of this duty, and after trying all the rat poisons which I have heard of at different times. I now use Barber's Phosphor Paste, and Vermin Killer, with which alone I am able to keep these ancient places and national works free from vermin. Signed, CHARLES SHONES.'

ASK FOR BARBER'S, AND SEE THAT YOU GET IT.

H. B. FIRMAN, Proprietor. WORKS, SALISBURY. ESTABLISHED 1838.

Special Quetations to Shippers. Supplied by all the London Wholesale Houses.

For destroying Rats, Cockroaches, &c. 3d., 6d., and 1s. Glass Jars; 2s. 6d. Tins. Warranted to keep for Export.

(POWDER).

FOR DESTROYING MICE. Id., 3d., 6d., and 1s. Packets.

STEINER'S PRIME DALMATIAN INSECT POWDER.

The most energetic Insecticide. Kills Bugs, Fleas, and all offensive Insects.

Quite harmless to Domestic Animals.

ld., 3d., 6d., and 1s. Tins. Also in 7-lb. Tins and in Kegs of 120 lbs., as imported.

ARE SOLE PROPRIETORS AND MANUFACTURERS OF

T. JAMES' SUPERIOR PHOSPHOR PASTE.

1d., 3d., 6d., and 1s. Glass Jars.

May be obtained through all the Wholesale Houses, OR DIRECT FROM

THE WORKS, HENRY ST., LIMEHOUSE, LONDON.

By Permission of the Hon. Board of Customs, Free of Duty.

GROUND LEAF TOBACCO OR SNUFF

Greatly Reduced in Price for Agricultural Uses.

As the basis for making FLY POWDER it is invaluable. For DUSTING OVER CATTLE, to destroy Lice or Prevent Fly, it is the SAFEST, at the same time the MOST CONVENIENT and CHEAPEST article for the purpose.

The Trade supplied direct from the Manufactory.

Price, in bags containing 1 cwt., 30/, or in lots of 5 cwt. and upwards, £25 per ton. Tins, 1/ and 2/ each (Retail), with full directions.

Post samples sent on application free of cost.

CORRY, SOPER, FOWLER & CO. (Lim.),

Bonded Tobacco Stores, SHAD THAMES, S.E. OFFICES 8 FINSBURY STREET, LONDON, E.C.

IMPORTANT TO CHEMISTS AT HOME AND ABROAD.

The DORIC CURES are Safe, Sure, Speedy Specifics.

DORIC EYE LOTION, guaranteed to quickly cure red, sore, inflamed eyelids and watery eyes.

DORIC WART, CHILBLAIN, CHAP, and CORN CURE softens and whitens roughest bands and skin. It is harmless, sweetsmelling, and beneficial. DORIC NEURALGIA CURE is unsurpassed and easily applied.

DORIC HAIR RENEWER acts on the hair like magic, and quickly converts fine down into strong, healthy hair.

DORIC TOOTHACHE CURE and PREVENTATIVE is a liquid, and contains no acid or injurious compound. It cleans the teeth, refreshes the mouth, hardens the gums, and arrests decay, ALL 1/13 AND 2/9 RETAIL.

CHEMISTS who write for particulars and mode of doing business will not regret doing so. Address.

DORIC CURATIVE CO., 20 HIGH HOLBORN, LONDON,
Or through Wholesale Houses.
Agents in Ireland—Messrs. Davidson & Leslie, Castle Place, Belfast.
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Agents wouted in English thoms, the Colonies, and abroad. Exceptional terms given.

Manufacturing Chemists, YORK STREET, WALWORTH, LONDON, S.E.

ESTABLISHED OVER 40 YEARS.

MAKERS OF

CITRATE of MAGNESIA, MERCURIALS of every kind, SWEET SPIRITS of NITRE, SAL VOLATILE, B.P. & P.L., PURE VEGETABLE COLOURS of every description, in Sugar and Paste (to this department W. B. & Co. have given special attention, to meet the requirements of the trade);

CONFECTIONERY FLAVOURS of every kind,

FRUIT ESSENCES.

SUPER ESSENCE of LEMON only,

MINERAL ACIDS of every kind,

TARTARIC. CITRIC, and other ACIDS (not makers of these, but in a position to offer),

GLACIAL ACETIC ACID, BORACIC ACID, &c.

SOLE · PROPRIETORS OF

MARIGOLDINE. NEW COLOUR FOR BUTTER, CHEESE, &c.



After a lengthened investigation, the Proprietors are enabled to offer this novel prevanction, representing the rich colour of the Marsh Marigold, in a highly concentrated form. Being a Vegetable Extract, it will be found to impart to Butter a beautiful golden colour, free from taste, possessing its natural odour, and as pure as the herbage on which the animal feeds.

It is well known that in the Spring or Summer the rich colour of Butter is derivable from the Marsh Marigold and Ranuculi (Buttercuss) of our pastures, and it has been the aim of the Proprietors to produce an article that will enable the dairyman to obtain uniformly the same results at all times of the year in the most agreeable form; sind it is confidently believed that it will be found superior to every preparation hitherto sold for the purpose. Its perfect compatibility with oil and grease of every description (not watery compounds) makes it useful for many other purposes in which it is desired to obtain a rich and delicate golden tint.

Sold by Chemists, &c., and Wholesale Houses, s., and will be happy to furnish Samples and Prices at all

W. B. & Co. solicit inquiries, and will be happy to furnish Samples and Prices at all times,

COLE'S

BY ROYAL LETTERS PATENT,



UNDER THE MOST DISTINGUISHED PATRONAGI



TESTIMONIAL

(SELECTED) FROM

JOHN PORTER.

The Distinguished Trainer.

KINGSCLERE, March 4, 1884. DEAR SIR,—Having thoroughly tested your

OSSIDINE.

for the removal of splints, spavins, &c., I beg to say it is the very best remedy I have ever applied. shall strongly recommend it to all my friends.

Truly yours,

J. PORTER.

PRICES OF OSSIDINE:

10s. 6d. per bottle; Three, 30s.; Six, 58s. 6d. Sent on receipt of remittance to any address, carriage paid, and case free.

WHOLESALE AGENTS:

Messrs, BARCLAY & SONS, Farringdon St., E.C.; Messrs. NEWBERY & SONS, King Edward St., E.C.

RICHARD COLE, Patentee, BERKS. WALLINGFORD,

HORSE, CATTLE, MEDICINES.

DAY, SON

BY ROYAL APPOINTMENT.

8

INVENTORS AND SOLE PROPRIETORS OF THE



By Special Warrant, Dated 10th February, 1866.

Dated 27th December, 1865.

For all Disorders in Horses, Cattle, Calves, Sheep, and Lambs.

Patronised for over 50 years by the nobility and the principal Stock Breeders, Horse Proprietors, and Agriculturists of the British Empire.

The No. 2 Medicine Chest contains the following matchless remedies:—
"CHEMICAL EXTRACT," for all External Injuries, and Ewes Lambing.

"GASEOUS FLUID," for Colic, Scour, or Diarrhoa, and Debility.

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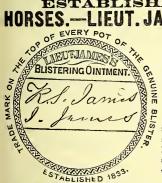
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And given cocasionally causes the Pig to lay on flesh rapidly.

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By supplying Show Cards, Posters, and Handbills, with Name and Address, FREE by Parcel Post.

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HAND BILLS
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Any Chemist, on application to THOMAS KEATING, Chemist, St. Paul's Churchyard, London, can have these sent for enclosure to his London Wholesale House. The Bills are plain on one side, printed on four different colours, large enough to wrap a 6 oz. bottle Two or three weeks' notice is required. Please send two labels that printer may add name and address correctly.

THIRTY-EIGHT YEARS' REPUTATION.

CANNOT BE EXCELLED.

NEATLY AND CAREFULLY PUT UP.

KILLS RATS & MICE

ON THE SPOT.

TESTIMONIALS.

From Mr. James
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poison succeeds to
admiration. It is as
effective as an infernal
machine."

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TESTIMONIALS.

From Messrs, P. Smith & Co., Chemists, Runcorn, Oct., 1880:
— "In our opinion your 'Destroyer' is the best extant."

From Mr. James Thompson, Low Hesket, near Carlisle, to Mr. R. T. Pattinson, Chemist, Carlisle. "Sir,—You can with confidence recommend Hunter's Vermin Destroyer." It is the best thing I ever used, having often cleared stack-yards with it of both rats and mice in a day or two."

From Mr. George Eagle, Merrickville, Sydney, Australia, to Mr. Mitchell, Druggist, Pitt Street, Sydney:—"Sir,—I promised to let you know how 'Hunter's Vermin Destroyer' acted. Its effect was wonderful; in one night it destroyed all the rats and mice about my house, which was swarmed with them."

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SANFORD & SON, having had 28 years of practical experience in Poisoning Rats, Mice, &c., can with confidence recomme it as the BEST PREPARATION KNOWN.

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Price 6d., 1s., and 3s. per Box, with Directions for use.

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SANFORD'S MICE POISON

WHICH HAS GIVEN ENTIRE SATISFACTION FOR THE PAST 28 YEARS.

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SE HAN ENCONTRADO MUERTAS 120 RATAS

DESPUES DE LA PRIMERA COLOCACION DEL

VENENO DE SANFORD PARA RATAS

SANFORD & SON llevan 28 años de experiencia práctica en el envenenamiento de ratas, ratones, etc., y pueden con confian: recomendar este veneno como el mejor preparado que se conoce.

Léanse los siguientes testimonios, escogidos de los numerosos que se han recibido:-

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Mr. Sanford.—Muy Señor Mio,—Veo efectivamente que veneno para ratas vendido por Vd. es muy eficaz, pues l logrado matar 130 ratas en mi granero.—S. S. S.—J. Paine, Estanciero, Caxton.

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QUE HA DADO ENTERA SATISFACCION DURANTE 28 AÑOS.

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Se vende al por mayor en casa de Barclay & Son, de Sanger & Son, de Newbery & Sons y otras en Lóndres

BATTLE'S VERMIN KILLER

MICE EAT IT READILY, AND DIE ON THE SPOT.

Has an IMMENSE SALE. and wherever introduced never fails to give satisfaction.



Mice appear attracted to it as by magic, eat, it readily, tumble over and die on the spot.

Rats usully die in their

Parties troubled with Vermin may be cleared at once, either from Stacks. Houses, or Ships.

TESTIMONY. LATEST

Letter from Mr. DOUGLAS KEALL, Chemist, Sittingbourne, September 24, 1884:

Dear Sir.—One of my customers has written the enclosed Testimonial. I know it is correct, as I supplied bim with the poison, and also saw the twenty-six dead mice. Yours truly, DOUGLAS KEALL.

126 High Street. Sittingbourne, September 23, 1884. Sir,—By using a quarter of a 3d. Packet of your Vermin Killer, I found no less than 26 dead mice this morning. Yours truly, A. HARRIDGE.

Sittingbourne, September 29, 1884. Dear Sir.—You are quite welcome to publish Testimonial, also my letter. Since sending the Testimouial, Mr. Harridge has found 5 more dead mice. making 31 altogether (all killed by the same poison that was first laid down.

To Mr. J. R. BATTLE, Liucoln.

Stringbourne, September 29, 1884.

To with the sending the first point of the sending se

TESTIMONIALS.—Thousands might be published.

From Mr. THOMAS COLTON, Agent for Selby.—A friend of mine purchased a Packet of your VERMIN KILLER last night, doubting its efficacy; to-day he called in to say that he had found fifteen dead mice, and had only start agent agent. used part of a packet.

From Mr. Edward Sturdy, Flemington Mills.—I duly received by post the Packet of your Vermin Killer, and found it as represented in your advertisement. It speedily destroyed all the mice in my granary. I enclose 2/ for two more packets

Leeds, November 6, 1857.—I have tried BATTLE'S VERMIN KILLER, and have found it most effectual in clearing my premises of LARGE QUANTITIES OF RATS.—THOMAS S. CROSSLAND.—Mr. Stead.

Sold in Packets, 3d.,

Sole Proprietor, Mr. J. R. BATTLE, Chemist, Lincoln, England.

No Chemist or Storekeeper should be without a supply.

MATADOR DE BICHOS DE (BATTLE'S VERMIN-KILLER).

Los ratones lo comen con avidez y mueren en el acto.

Tiene una venta inmensa en donde quiera que se ha introducido, y siempre da satisfaccion. Los ratones parecen atraidos por él como por la mágia, lo comen y caen muertos sin mas. Las ratas mueren al escaparse. Las personas que tienen casas ó propiedades infestadas, pueden librarse en seguida. Es igualmente eficaz para buques, niaras, casas, etc.

ULTIMO TESTIMONIO.

Carta de Mr. DOUGLAS KEALL, Farmacéutico, Sittingbourne, 24 de Setiembre 1884.

Mny Señor mio.—Uno de mis parroquianos ha escrito el testimonio adjunto. Me consta que es verdadero, pues le vendi el veneno y vi los 26 ratones muertos.

S. Afmo. S.S.

DOUGLAS KEALL.

126 High Street, Sittingbourne, 23 de Setiembre, 1884. Muy Señor mio.—Despues de emplear la cuarta parte de uno de los paquetes de su veneno á 30 cóntimos, he encontrado 25 ratones muertos. S.S., A. HARRIDGE.

Sittingbourne, 22 de Setiembre, 1884.

Muy Señor mio.—Tiene Vd plena libertad de publicar este testimonio, como asi tambien mi carta; despues de enviar el testimonio el Señor Harridge ha encontrado otros 5 ratones muertos, haciendo 31 en todo (muertos con el mismo veneno primeramente colocado).

Sr. Don J. R. BATTLE.

S.S.S.,

DOUGLAS KEALL.

DOUGLAS KEALL.

TESTIMONIOS.—Miles podian publicarse.

Mr. THOMAS COULTON, Agente en Selby.—"Un amigo mio compró anoche un paquete del 'Matador de Bichos' dudando de su eficacia. Acaba de pasar por aqui y me ba dicho que á pesar de no haber usado mas que la mitad de un paquete, ha encontrado 15 ratones muertos."

De Mr. EDWARD STURDY, Flemington Mills.—'Recibí por el correo el paquete de su 'Matador de Biebos' y veo practicamente que sus efectos corresponden con lo expresado en el auuncio, pues ya no bay niugnn raton en mi granero. Se incluyo lo reales por otros dos paquetes, por si acaso.

Leeds, 6 de Noviembre, 1857.—He probado el "Matador de Bichos" y lo he encontrado de suma eficacia para la destruccion de GRANDES CANTI-DADES DE RATAS que hormigueaban en mi casa. S.S.S. Mr. STEAD.

Se vende en paquetes á 30 céntimos, 60 cs., y 5 rs. cada uno.

DIRIGIRSE AL ÚNICO PROPIETARIO.

MR. J. R. BATTLE, Farmaceutico, LINCOLN, INGLATERRA.

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Burchell's Anodyne Necklaces, Ford's Balsam of Horehound, Widow Welch's Pills, by Mrs. Smither Oxley's Essence Ginger, and the preparations of Messrs. Hudson & Son, late of the Haymarket, London.

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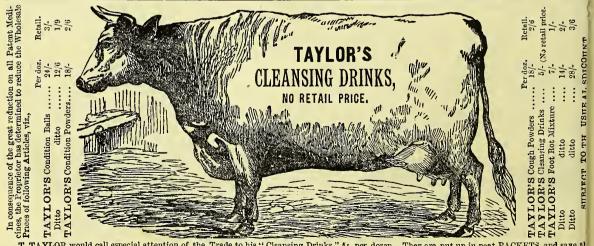
In constant use on the Royal Farms, and among Dairy Owners round London and other centres, besides a very large consumptio as a Blood Medicine for Bullocks, Sheep, Horses, and Pigs throughout Great Britain and Ireland.

Wholesale, in ½ and 1 dozen Tins, 6/6 per dozen; Retail, 9/; 3 dozen Tins, 17/6; Retail, 22/6.

OTHER SPECIALITIES-" Norfolk" Cordialine for Colic in Horses or Neat Stock, "Norfolk" Blood Balls, "Norfolk Blood Powders, "Norfolk" Sprain Oils, &c., &c.

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T. TAYLOR would call especial attention of the Trade to his "Cleansing Drinks," 5s, per dozon. They are put up in neat PACKETS, and save t Chemist immense trouble. §3" If preferred, the Drinks can be had without the word "Taylor's"—only "Cleansing Drinks"—thereby enabling to Chemist to affix his own slip label; but to secure this, when ordering ask for those with the pink label. NO RETAIL PRICE AFFIXED.

ARED BY THOMAS TAYLOR, M.R.C.V.S., DE And to be had from all the Wholesale Hou'es, or direct in gross boxes at £3 per gross, less 20 per cent, cash (carriage paid).

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Established 1834.

45 ST. JOHN STREET. WEST SMITHFIELD.

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Darton's Improved Imperishable Index

As noticed in the Lancet, Chemist and Druggist, &c., can be obtained only of the Inventors and Makers; cannot get out of order, and are therefore specially suited for Export.

PLAIN CLINICAL THERMOMETERS, BATH

(Fahrenheit or Centrigrade Scale).

4 or 6 in., in case, 3/6 each

4 in. or 6 in. ditto, contracted in Ebony Case, 4/ each. If with Magnified Bore, 6/ each.

DARTON'S IMPROVED DITTO, IMPERISHABLE INDEX, 4 or 5 in., 5/ each.



Ditte, Enlarged and Magnified Bore, with lers front, 7/ each.



One Bent and One Straight 6-inch Clinical Thermometer, in Morocco Snap Case, 10/6 the set.

Kew Certificates, 1/3 each extra.

Thermometers for special purposes made to order at a few days' notice. A large stock of Barometers and Thermometers always on hand.

THERMOMETERS, Japanned Tin Cases, Silvered Metal Scales, 8 inches long, 12/ per dozen.

Ditto, Enamelled Tubes, with Dr. Forbes' Specifications,

Ebonised Thermome'ers, with Enamelled M reury Tubes, 4/6 per dozen.

8-in. B xwood ditto, with spirit tubes, 6/ per dozen.

Enamelled Minimums, 15/ per dozen.



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BATH THERMOVETER cannot get out of order or illegible through use, as is the case with the ordinary Bath Thermometer, and is much cleaner for Dairy purposes. 36/ per dozen.

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New Form Metal Frame Electric Bell, with 21/2 Plated Dome, 4/6 each. Complete, with Large Battery, Push Piece and Wire, and Instructions for Fixing, 10/6.

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invalids' Electric Bell Set, with Bell and Battery in Polished Case, 30 feet of Flexible Line Wire, and Pear Push, 21/ each.

Invalid's Electric Bell Set, in polished Mahogany Case, with 3-in. best bell, 27/. New Patent Electric Gas Lighter, 17/6 each.

Estimates given for Fitting up Houses or Shops.

Magneto Electric Machines, in Pine Case, 9/ and 10/6; ditto in Mahogany, 16/6; ditto, best quality, with plated handles. &c., 22/6.

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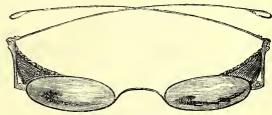
For the convenience of Customers who have not yet started he Sale of Spectacles, we fit up Show Cases, containing an ssortment of Spectacles, complete with Sight Tester and nstructions, as follows:-



Our £2 2s. SHOW CASE for the Counter, in Polished Mahogany, contains 4 dozen Spectacles, Sight Tester, and Instructions for suiting sight. Our £3 3s. CASE contains, in addition, 2 dozen Folders and 2 dozen Cases. Larger sized Cases, in Polished Mahogany or Ebonised, with an assortment of superior quality Spectacles, Folders, and Cases, £6 6s. and £10 10s. Ditto, with assortment of Best Pebble Spectacles and Folders, £21.

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BOWMAN'S GOGGLES, with Neutral Tint, Domed Glasses and Gauge Cups, as recommended by the leading Oculists for weak and inflamed eyes. Best Quality, 78/ per dozen.



Cases for ditto, solid leather, 12/ per dozen.

NEUTRAL TINT, "D" EYE SPECTACLES, best quality, 48/ per dozen.

DOMED SPECTACLES, Coloured Glasses, common, 4/6, 8/, and 10/ per dozen.

Ditto, Best Steel Frames, 24/ per dozen.
Ditto ditto, and with Worked Glasses, 30/ per dozen.

H. BAILEY & SON'S



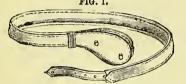
TRUSSES.

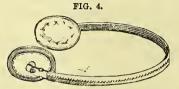


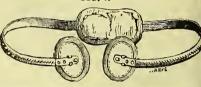
Super.

Cotton.

FIRST PRIZE (SILVER MEDAL) FOR TRUSSES AWARDED BY THE WORSHIPFUL COMPANY OF CUTLERS OF THE CITY OF LONDON, MAY, 1879







Circular Trusses, singl	TRUSSES. e, as Fig. 1, basil and char	nois or basil and				Salmon & Ody's
	ole, basil and chamois or ba			1	0	
		per doz.	1	14	0	Coles's Expired
" "	with extending backs	"	2	14	0	,, ,,

						-
Salmon & Ody's Expired Paten			••	per doz.		
Moc-Main Lever, single"	double	_	••	,,	3 0	0
double			••	each		
Coles's Expired Patent, single			••	** ,,	0 13	
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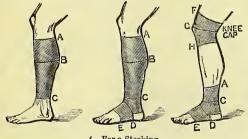
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,	For a Thigh-piec	e and	Knee	-cap	



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IEW INVENTIONS.

PREPARATIONS OF DIGESTIVE FERMENTS.*

E importance of investigating thoroughly, and in a true scientific spirit, the properties of new drugs and preparations is apparent to everyone. In many cases investigation can be carried on by physicians engaged in ve practice, but in other instances the technical knowledge ne physiologist and pharmacologist is needed for a true rpretation of the facts. This co-operation is especially entageous when dealing with such active and at the e time indefinite bodies as the vegetable and animal ents. An extract of malt may be a powerful digestive t, or it may have been prepared at such a temperature A pepsin or o destroy the activity of the diastase. reatin may be an active medicinal substance, or it may o largely adultered with starch as to be practically eless. For some time past it has been known that great ovements have been made in the mode of preparation of ler Extract of Malt, and that Fairehild's Scale Pepsinc Extractum Pancreatis were of such activity that nothing lequal to them had been previously available for use in icine. The fact that these substances were prepared firm so well known as Messrs. Burroughs, Wellcome & of Snow Hill Buildings, was in itself presumptive ence that they were not altogether destitute of activity; still, that was not scientific evidence, and it was felt a thorough investigation should be made, and an pendent opinion given. Acting on the suggestion of ral well-known physicians, the Editor of the London ical Record appointed a Commission, consisting of Dr. ger, of University College Hospital, and Dr. Murrell, of Westminster Hospital, to undertake an experimental uiry, and report with as little delay as possible. The full of the report has not as yet been received, but it is erstood that the following statements embody the chief its on which a decision has been arrived.

The Kepler Diastase Extract of Malt was found to be excellent quality. It is light in colour—showing that it been prepared at a low temperature—and has a sweet agreeable taste. It possesses the power of converting reh into sugar to an extent which is exceptional.

2. The Kepler Extract of Malt and Cod-Liver Oil differs little in appearance from the simple extract of malt. chough it contains 40 per cent. of cod-liver oil, the taste the oil is hardly perceptible. On examination under the croscope it is found to be a most perfect emulsion, there mg no sign or trace of oil-globules present. On holding a slide, covered with the emulsion, up to the light, it was an to be perfectly transparent.

3. Fairchild's Extractum Pancreatis was ascertained to be bowerful digestive agent. It is alleged of it that it acts cally well in alkaline and in neutral solutions; but this int the Commission reserved for further investigation. It

completely transformed the case of milk into peptones, so that in a few minutes no curdling was produced even with nitric acid. Examined under the microscope, it was seen to be entirely free from starch.

- 4. Fairchild's Scale Pepsine was found to exert a speedy and effective action on fibrin. An investigation of its action on egg-albumen was reserved for a future occasion. An opinion was expressed that the new pepsine was to be regarded as an efficacious and trustworthy preparation.
- 5. The "McK. & R." Capsuled Pills were examined incidentally, and the coat was found to dissolve completely in about thirty-five seconds.
- 6. The Compressed Tablets of bisulphate of quinine, made without the addition of any adhesive or other substance, were found to be readily soluble in water at the temperature of the body. They were found to be uniform in size, and remarkably accurate in weight. The compressed tablets—of aconitia, atropia, morphia, &c.—for hypodermic use were found to dissolve completely, as a rule not more than from two to three minims of water being required.

The Reporters were much struck with the scientific skill and accuracy displayed in the manufacture of all the articles and preparations.

Every operation was conducted under the immediate superintendence of a scientific chemist, and it was felt that every effort had been made to ensure the highest degree of perfection.

This report must be regarded as merely provisional, but Messrs. Burroughs, Wellcome, & Co. are to be congratulated on the favourable impression their articles have evidently made on the Commissioners.

The extensive new factory and laboratories erected by Burroughs, Wellcome, & Co. are fitted up with extremely elaborate and costly machinery, and scientific, chemical, and pharmaceutical apparatus. These appear to be on a scale quite commensurate with the business connections of this firm, whose correspondence and transactions extend into every civilised country of the world. The vacuum apparatus for preparing the Kepler Extract of Malt is the largest one ever constructed, and is of an original design—the invention of the members of the firm. By the use of this apparatus Extract of Malt is prepared at a lower temperature than is possible by any other; this is the secret of the superiority of the Kepler Extract. The condensing apparatus, percolators, mashing tubs, malt mills, air pumps, filter presses, mixing apparatus (for preparing the Kepler Emulsion of Malt and Oil) are all unique, and of improved designs.

One section of the buildings is devoted to the manufacture of the Compressed Tablets, in the process of which extremely intricate machinery is required.

It would occupy too much space to enumerate all the complete equipments of these extensive laboratories, which bear every evidence that the proprietors keep fully up to the times in all scientific improvements pertaining to pharmaceutical manufactures. A boiler of 40-horse power and an engine of 24-horse power are required to operate the machinery, while the extensive manufactures necessitate the use of upwards of 50,000 gallons of water per day, and in order to secure this of great purity artesian wells have been sunk.

Messrs. Burroughs, Wellcome, & Co. are both graduates of the oldest Pharmaceutical College in the world, and their laboratories are presided over by a scientific chemist of exceptional attainments.

^{*} Reprinted from the London Medical Record, December 15, 1884.

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See "CHEMIST AND DRUGGIST," December 15th, 1874.

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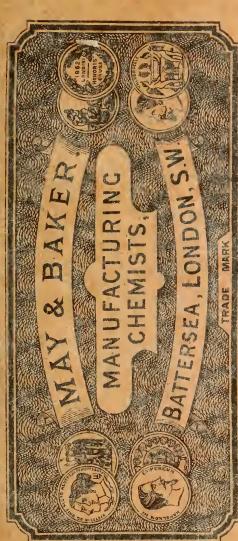
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The Pharancentical Society of Queensland.

The Pharmaceutical Society of New Zealand

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THE MONTH.

Many chemists, not subscribers, will receive a copy of this journal. We hope a large proportion of them will find it worthy of their subscription. They will see that we give monthly all the news of the trade, special reports of the drug markets, careful abstracts of all the more important papers on practical pharmacy which appear in any part of the world, a wide selection of formulæ and business suggestions, and the largest variety of original articles on subjects interesting o chemists and druggists which can be found in any journal of pharmacy in the world.

We charge 10s., payable in advance, for a year's supply of this journal. That amount covers postage to any part of the world, and in the course of the year we present to every subscriber a copy of our CHEMISTS' AND DRUGGISTS' DIARY

(sold to non-subscribers at 3s. 6d.).

Chemists abroad can remit to us in any way convenient to themselves-in the currency of their own countries if they prefer it—but it is found most convenient, if the / are in correspondence with any English house, to author se us to collect the amount annually from that firm, and let it be

debited to account.

THE CHEMISTS' AND DRUGGISTS' DIARY for 1885, including the important "Treatise on the Art of Dispensing,"

proved even more popular than we had anticipated. We printed an extra 500 copies to meet the exceptional demand which we looked for, but our whole stock was exhausted on December 31, and we have had since to refuse a large number of orders.

To satisfy numerous correspondents we have prepared a reprint of the "Treatise on Dispensing" in small octavo form, bound in limp cloth. We shall supply this only to subscribers to THE CHEMIST AND DRUGGIST, charging 1s.

per copy for it, or 1s. 2d. by post.

There are a number of Spanish advertisements in this number inserted for the purpose of cultivating trade with drug houses in Spain and South America. In those parts of the world we are giving a special circulation of this number, and we hope the result will be an advantage both to buyers there and sellers here.

Mr. C. B. Allen, of Kilburn, has been chosen to fill the vacancy on the Pharmaccutical Council occasioned by the resignation of Mr. F. Andrews.

The Pharmaceutical Council are endeavouring to pass a series of new and modified by-laws. These will have to be agreed to by the Society generally and approved by the Privy Council. If passed they will give the Society power to enforce a curriculum on all who desire to be chemists and druggists, toraise the fees, and to add a supplementary examination.

The Belgian pharmacists have issued formal invitations for the sixth International Pharmaceutical Congress to be held in Brussels about the end of August. The King of the Belgians has accepted the "high protectorate" of the Congress, and the Home Minister and the Burgomaster of Brussels have consented to serve as honorary presidents. The International Pharmacopæia, pharmaceutical education, and the position of pharmacists as public analysts are the subjects proposed for conference. The Congress is to last seven days, and a final session is to be held at Antwerp.

Our Corner for Students this month reveals a rather noteworthy result. Samples of a mixture of salts were sent to twenty-nine competitors. The nixture contained, among other substances, nearly 1 per cent. of arsenious anhydride, and just twice that proportion of iron in the form of ferrous sulphate. Iron was detected by twenty-eight students, but arsenic was only found by six.

The total number of commercial failures in the United Kingdom in 1884 was 4,394; in 1833 the number was 10,599. Of retail chemists 23, and of wholesale druggists 11. failed in the course of 1884.

Professor Redwood is to give an address at Birmingham or the 28th inst. on "Education and Examination," on the occasion of the inauguration of pharmaceutical classes in that

We report the death of Mr. Thomas Harvey, formerly the head of the firm of Harvey & Reynolds, of Leeds. Mr. Harvey was widely known in connection with philanthropic

Portraits will be found in this number of the late Mr. Thomas Harvey, of Leeds; Mr. McKesson, sen., who has lately retired from the firm of McKesson & Robbins, New York; and of Mr. Alderman Cox, of Brighton, well known in the drug trade, who has served his town as mayor during three years.

The Chemists' Ball is in vigorous operation while we are printing this journal, another has just been held at Edinburgh, and one is announced for Birmingham on the 23rd inst.

At the moment of going to press we learn that Mr. Charles Robinson Harker, senior partner in the firm of Messrs. C. R. Harker, Stagg & Moss, died suddenly on Monday evening last. The deceased gentleman left his office in Laurence Pountney Lane about 4 o'clock to take the train home from Ludgate Hill, and whilst waiting on the station platform was seen to fall forward; when raised life was found to be extinct. The tall, slightly-bent form of Mr. Harker was well known on 'Change, where he was highly respected by his brother wholesale druggists for uniform straightforward dealing, and for his extremely frank and generous character. Mr. Harker was in his forty ninth year.





CONDUCTED BY RICHARD J. Moss, F.C.S.

QUALITATIVE ANALYSIS.

THE subject of the next exercise in qualitative analysis will be a mixture of salts. It is to be submitted to a thorough systematic examination, designed to detect all its constituents and to demonstrate the absence of other substances. A complete report of the analysis is to be furnished, giving a list of the metals and of the acidulous radicles detected, and distinguishing those that may be regarded as accidental impurities.

Applications for portions of the mixture will be received up to January 20, and the samples will be forwarded on the 25th,

Students' papers will be received up to February 15.

REPORTS.

The mixture of salts sent to our correspondents in November consisted of:—

'					Parts
Calcium carbonate		• •	••	••	60
Magnesium carbonate	• •	••	••	/• •	40
Ferrous sulphate	• •		• •		10
Manganous sulphate	• •		• •	• •	10
Arsenious anhydride	• •	••	••	••	1

The following is the calculated composition of 100 parts of this mixture:—

Ca				••	••	••	••	19.84
Mg	••							9.45
Fe								1.66
Mn								1.83
CO_3								53-37
SO,								6.14
As_2O_3								-83
H_2O	••	••	••	••	••	••	••	6.83
								100.00

The reports received this time record, as usual, the diseovery in the mixture of pretty nearly all the common elements; and there are not many of the reports that can be said to represent the composition of the mixture at all accurately. The chief defects are errors of omission. The following list shows the number of students who failed to detect the several constituents enumerated, the total number of reports sent in being 29:—

As	 • •		••	 	 23
Mn	 			 	 18
Mg	 			 	 11
Ca	 			 	 7
SO.	 	• •		 	 4
CO_3					 2
Fe					3

Only about one in every five detected arsenieum, while iron, that was not present in very much larger quantity, was detected by twenty-eight out of twenty-nine students. The explanation of this is to be found chiefly in the familiarity of students with the very well-known reactiors by which iron is separated and recognised, and their comparative ignorance

of the analytical reactions of arsenieum. The latter elemen however, requires the special attention of the pharmaceutical student. A peculiar analytical interest attaches to it o account of the very poisonous character of most of its con pounds and their rather common occurrence. The necessit for being able to detect with ease and certainty minut quantities of arsenieum has induced chemists to give a grea amount of attention to the subject, so that the reactions of the element and devices for separating and recognising under all sorts of conditions have formed the subjects of many elaborate investigations. In the ease of investigation relating to suspected poisoning by arsenic, the presence of large quantity of organic matter is generally the chief diff eulty to be overcome. It is not an uncommon thing for th chemist to be ealled upon to detect arsenie in mixtures of very indefinite character in which it cannot be present i larger proportion than about 1 part in 50,000; and not merel to detect it, but also to determine the quantity accourately Compared with this, the problem that our correspondents ha to solve was a very simple one indeed; they had to detec 1 part of arsenious anhydride in 120 of inorganic matter.

Assuming dilute hydrochlorie acid to have been employed as a solvent, the conditions for the separation of arsenicur were as favourable as possible. On passing sulphuretted hydrogen through the solution, the yellow sulphide was pre eipitated mixed with a little sulphur, for some of the iro: present had undergone oxidation, and the reduction of thi by sulphuretted hydrogen involved a separation of sulphur The decision of the student as to the colour of this precipitate was the turning-point in the majority of cases. With ordinary artificial light it is very hard to distinguish between white and yellow, and, considering the time of year, no doub many students worked with gaslight. It will generally be found practicable to look at the precipitate in dayligh before arriving at a decision. This precaution will, however be worse than useless unless the other conditions of success are duly attended to. It is most important to ensure that sulphuretted hydrogen is in decided excess. A good plan is to operate at first on a small part of the solution, so that if no coloured precipitate separates, the trouble of saturating the entire solution is avoided. Above all things, the student must be liberal in the use of the group reagent. If arsenieur is present as an arsenie compound many hours may clapso before the precipitation is complete. There may be other eompounds present that undergo reduction at the expense of the sulphuretted hydrogen, and until it has satisfied their requirements the reagent may produce no other effect. Time is, therefore, another element of importance in this operation.

Most of the tests that are employed for the recognition of arsenieum are very sensitive, and some require considerable manipulative skill. There is, however, no serious risk of error if the student, instead of trusting to any single reaction, tries every test that the circumstances admit of until there is no room for doubt.

In experimenting with arsenical compounds it is well to employ small quantities for fear of accident. In trying Marsh's test the student should remember that arseniuretted by drogen is excessively poisonous.

PRIZES.

The First Prize for the best analysis has been awarded to CYRIL DARBY MARSON, 53 Greengate Street, Stafford.

The Second Prize has been awarded to A. W. Morrell, 7 Market Place, Chesterfield.

Marks Awarded for Analyses.

C. D. Mars	on	••		98	J. Stanley	75
A. W. Mor	rell	••		96	F. W. Freemau	75
Renrew				90	W. R. B'ain	75
		•••			"Lithium"	74
W. H. Coc	kle	• •	• •	85	W. Bamford	73
G. J. W.	••			83	T. S. Adair	70
H ₂ S				83	" Medical Student"	65
J. B	••			83	"Spes"	63
E. J. Milla	rd			81	H. S	60
W. J. Hoy	ten	••		80	A. L J	50
F. M. Flet	cher			79	т. н. w.	30
E. J. Towi	11			79	Н. А	25
G. F. Barr	att			78	"Podophyllin"	20
G. W. Har	ris o n			78	W. H. J	0
"Wisp"				78	т. н. н.	0

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write once to the Publisher, naming the book they select, and stating how they shit forwarded.

Any scientific book that is published at a price uot greatly exceeding f-a-guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as cond prize.

* All communications should include the names and addresses of the writers.

Renrew.—Your paper was very creditable; there was but one error of any te. It is only after exhausting every device that can be thought of that a should venture to form a final opinion in such a questionable case as at referred to in your postscript.

3. J. W.—Your examination of the ammonium-sulphide precipitate was to at all as complete as it should be. It must be remembered that the resist for proving the absence of certain metals or acid radicles is quite great as the necessity for proving the presence of others.

J. B.—It was a great mistake to omit the examination of the vellow ecipitates, considering what a simple matter it was to test it for enicum.

G. W. Harrison.—Though you detected manganese, you omitted to intiou it in the list of constituents found.

Wisp.—The mere production of a precipitate with sodium phosphate and mouia should never be accepted as evidence of magnesium; the character of the precipitate is an important consideration. In your list of the tals you omitted magnesium, though you detected it in the analysis.

F. W. Freeman.—You evidently did not allow sufficient time for the genesium precipitate to appear. It is a safe plan to allow the solution to advernight before concluding that there is no precipitate.

bithium.—We could not make out from your paper what you did with portion insoluble in water.

Medical Student .- See remarks to F. W. Freeman.

Spes.—You will do well to study experimentally the method that you ployed for separating the alkali-earth metals, employing mixtures of own composition.

4. L. J.—The formula for zinc oleate is $Zn(C_{18}H_{33}O_2)_2$, that of normal minium oleate would be $Al(C_{18}H_{33}O_2)_3$,

T. II. W.—It is not clear what solution you tested for sulphuric acid. tere is nothing in analytical chemistry so simple as the detection of is acid.

II. A.—If you prepare a solution containing a salt of iron and salts of the metals of the same group, and practise separating them, you can urely fail to gain information that will prevent a repetition of your rather fous errors. You evidently trust too much to mere book knowledge, member that chemistry is an experimental science.

W. H. J. and T. H. H.—Your results are not at all creditable. If you ally mean to study analytical chemistry you will require to devote your-ves far more scriously to the subject. Until you can make a fair analysis a mixture of your own preparation it will scarcely repay you to attempt e analysis of substances of unknown composition.

Pharmacalra.

THE NEW TIME.

Mr. J. NORMAN LOCKYER is delivering the course of juvenile lectures at the Society of Arts, in the Adelphi, on "Universal Time: our Future Clocks and Watches." All the available tickets for admission were speedily claimed, and as they were issued in the order of application, the supply was soon exhausted.

Now that a paternal Observatory has given us twenty-four hours in the day druggists should be satisfied. They have always been fond of long hours.

GAS AND ITS EVILS.

Gas, it is well known, acts injuriously on the binding of books, and for this reason was excluded from the library of the British Museum. Carbon bi-sulphide, due to the eontained sulphur, exists in very small quantity in eoal-gas. Most of the sulphur unites with hydrogen, forming sulphuretted hydrogen, but this ean easily be stopped in the purifiers. But part of the carbon bi-sulphide always comes over, and in London gas, according to Mr. Harold Dixon, there are about 12 grains of sulphur as carbon bi-sulphide in 100 cubic feet. It burns to sulphurous acid, mixes with the air, and under some circumstances is capable of oxidation to sulphuric acid, which is injurious to various things we have in our rooms. Some think that there is formed in the atmosphere of a gas-lighted room a cloud of sulphuric acid particles, which are deposited on all surrounding substances. Others that H₂ SO₄ is only deposited on hygroscopic bodies, and not indiscriminately.

This appears to be correct, for it has been shown by careful experiment that sulphurous acid suffers oxidation only when it meets with water—that is to say, with a damp surface. If the walls are damp, or there are basins of water, or very dry leather, which readily attracts moisture, the water dissolves sulphurous acid, and forms H_2SO_4 , which readily suffers oxidation.

Metalwork over a gas-burner for a short time condenses steam, and the sulphurous acid dissolved in the water is eon-verted into sulphuric. Books placed near the ceiling have their bindings rotted, because the heat first caused the rotting of the leather, which became hygroscopic, attracted water, which dissolved the sulphurous acid, which in turn was eonverted into sulphuric. The remedy is to allow a sufficient quantity of air to carry off the products of eombustion, and books will suffer as little as human beings under similar favourable conditions.

PAINLESS SLAUGHTER OF ANIMALS.

Dr. Richardson, whose inventive genius seems inexhaustible, explained his method for the painless extinction of life in the lower animals before the members of the Society of Arts on Dec. 18, 1884. The lecture itself was one of the happiest efforts of the author. The idea of applying the anæsthetic method, and its first accomplishment, dates as far back as 1850, and was due to himself. He constructed at Mortlake a small lethal chamber, to which his neighbours would frequently bring animals which they wished to have killed; and since that time the Doctor has never let the subject rest. Lately, at the request of the committee of the Dogs' Home, at Battersea, Dr. Richardson constructed a lethal chamber. On May 15 thirty-eight dogs were subjected to the fatal narcotic vapour. All passed quickly into sleep, and from sleep into death.

From that time up to now the chamber has been regularly in use. From 200 to 250 dogs per week have been painlessly killed by these means, giving a total of nearly 7,000.

In choosing an anæsthetic, four were principally examined—carbonic oxide, to which the preference was given, chloroform, carbon bi-sulphide, and coal-gas. The last-mentioned possessed many undeniable advantages, but was deemed dangerous in application even in experienced hands.

Aided by Mr. Clark's condensing stove, the Doctor was enabled to bring his experimental investigations to a practical result, and his method is in full operation.

The lecturer entertains great hopes of electricity as a lethal agent for larger animals.

One strong point should not be omitted. By means of carbonic oxide sheep can be put to sleep before they are slaughtered. No bad effect whatever is produced in the fiesh unfitting it for food. The objection to retention of blood, so strongly felt by the Jewish people, does not obtain; animals in the narcotic state yield up blood as freely as under ordinary conditions.

Experiments are being actively pursued with regard to oxen and larger animals; and there is no reason to doubt the success of the ultimate endeavours of Dr. Richardson to carry out his beneficent design.

THE LATE MR. HENRY WATTS.

One is continually reminded how poorly remunerative is high-class abstract science literature. The temptation for a writer to devote himself to such composition as will please the general public and consequently sell is increased by hearing so often of men whose names are known to fame leaving most inadequate provision for those who are naturally dependent on them. A good startling novel, particularly if a short one and involving but small expenditure , its production, is infinitely more profitable than the most learned treatise on some advanced subject. At this moment there is an appeal made on behalf of the late Mr. Henry Watts, Fellow of the Royal Society, editor of well-known and admirably-executed compilations; editor of standard books which continue to enjoy a wide circulation; editor for years of the Journal of the Chemical Society, and, moreover, its chief librarian at Burlington House. Reasoning apart from private considerations, of which we know nothing, this record seems to point but to one conclusion, that literary science does not pay. Financially speaking, that fact is clear as daylight, brought out in strong relief when contrasted with the marvellous advantages reaped from science applied to the practical wants of man.

The diligence of the late Mr. Henry Watts was remarkable, and even in these days of persevering energy was surprising. He, the very quietest of men in public, and the most unassuming, deliberately attacked ponderous work. Had he been an engineer he would have been pleased to have been entrusted with the St. Gothard Tunnel or the re-pointing of the great wall of China, or any other feasible occupation of patient toil.

His first serious attempt was the translation of Gmelin's "Chemistry" for the Cavendish Society—an undertaking which wanted as much courage as literary skill. Lately he both edited and, to a great extent, re-wrote Fownes's popular manual; while the very sight of Watts's 'Dictionary of Chemistry' on the library shelves, exhibiting volumes of portentous size and number, is of itself sufficient to inspire a certain amount of awe. Sometimes the poor student says sadly to himself, "Must I know all that before I can hope to be a chemist?" Death has surprised the indefatigable compiler in the midst of his multitudinous researches, and withdrawn him from the world of books, treatises, pamphlets, and

periodicals which he loved so well, especially if they were the German language.

We must sincerely hope that the appeal made for the suport of the family which he has left behind will meet with liberal response, for he certainly advanced in no small degrathe knowledge we as Englishmen possess of chemical science and has materially shortened other men's labours by his ow

THE BREMRIDGE TESTIMONIAL.

A meeting of the subscribers to the 'Elias Bremridge Pc trait Fund' is announced to be held on Wednesday, Jan. 1 for the purpose of appointing a committee to make the nece sary detailed arrangements. The form of testimonial is n free from apprehension. As a society we have not be fortunate in our works of art, but, should the forthcomir portrait be successful, it may inaugurate a more cheerf series of pictorial reminiscences. There is not a memb throughout the pharmaceutical body who will not be glathat there should be some public recognition of the lor services of our former invaluable secretary.

BOTANIC NOTES.

The museum of the Royal Botanic Society has lately received the curious fruit of the so-called grapple plant of South Africa. Often mentioned by travellers, it is but selded described or figured by naturalists. Burchell relates how the country, at the end of September, presented an arid, un productive appearance, but that the rains had awakene from their subterranean retreat a profusion of flowers are curious plants; amongst others the beautiful Uncaria precumbens, or grapple plant, which was in full bloom, spreadin on the ground, some plants having already formed the grapple like seed-vessels, while others were only beginning to expantheir large purple flowers.

Livingstone writes:—The grapple plant has so man hooked thorns as to cling most tenaciously to any animal t which it may become attached. When an ox gets one on hi mouth the animal stands roaring with pain and a sense c helplessness. To introduce it, therefore, into other regions, as for instance, Australia, from motives of curiosity, might eventually prove a pest to its new home. The plant is further remarkable from its botanical isolation. It claims few near relations, and is considered as a single and distinct species is a distinct genus in a small group or natural order of plants. Pedaliaceæ. The name "uncaria" is derived from uncus, hook. It presents one mass of spikes and hooks bristling is every direction. De Candolle altered the name to "Harpago phytum" (harpāgo, a grappling-hook), which may be significant, but was less happy.

Panama hats are made from the leaves of the Carludovica palmata, which flowered and fruited last summer in the Regent's Park. The hats are made of the fan-like leaver which are split up or divided along the fibres into more o less delicate filaments, which are then plaited as desired The most costly are made from a single leaf without any joining, and as the process sometimes occupies two or three months, a single hat may cost over 30l. The stiff parallel veins are removed, and the leaves are immersed in boiling water for a short time and then bleached in the sun. The best hats are made, says Lady Brassey, in the Republic of Ecuador, especially at Upegapa and Monte Christo. They are so light, pliable, and elastic that they will wear for ever. wash like a pocket handkerchief, do not get burnt by the sun, and can be rolled up and sat upon, in fact, ill-treated in any way you like, without fear of their breaking, tearing. or getting out of shape.

They cost about 60 guineas, and 50% is not an uncommon price to pay, though the inferior kinds may be had for 21.

And now we wish each and every reader, not by way of compliment, but in all sincerity, a very happy New Year. These are days of steam-pressure and of exacting activities, which leave scant time to be rescued from commercial industry. Just as the City provides shortened services for the London merchant, so we, acting under advice, have ventured upon shorter notes, meant, while more varied, to be, as far as our ability will permit, acceptable and useful. We cannot by one supreme effort acquire the power of being brief: this is a maiden effort.

When the great Dr. Chalmers came to the metropolis to preach for Edward Irving, the latter, the most eloquent of sacred orators, offered to take part in the ministration, observing, "Doctor, I can be short." He had over-estimated his powers, for it is on record that he prayed for five and thirty minutes! We have tried to do our best and, by perseverance, may succeed.

There are a mass of subjects which every druggist ought to know, which come under no distinct heading and which admit of no classification, which are best treated currente calamo and presented in rapid abstract. Such will find place in these notes and be duly registered in Pharmacalia.

Occasionally there are matters of more permanent and higher interest, which cannot be included in the series, but must have that separate attention which they demand. Pharmacy as a trade has suffered during the past twelvemonths in the general depression, but two things have marked its career: the ingenuity displayed in inventing new articles for sale; and the advance shown in chemical research by our young men. We have never been prophcts of foreboding, and we hold to our original belief that we are advancing as British pharmacists to a position which will be equally lucrative and honourable.

The Pharmaceutical Council.

ON Tuesday, January 6, the Pharmaceutical Council met a deputation from the Executive Committee of the Chemists and Druggists' Trade Association, and conferred with them for about an hour. Particulars of the Conference have not transpired, but it is understood that the subject discussed was the desirability of promoting further legislation, and we believe the result was a general concurrence in the policy of postponing further action until the proposals of the Government in regard to the sale of poisons should be made public. The members of the Pharmaceutical Council present were Mr. Michael Carteighe, President, in the chair; Mr. Samuel Ralph Atkins, Vice-President; Messrs. Borland, Bottle, Butt, Churchill, Gostling, Hampson, Hills, Radley, Richardson, Robbins, Savage, Schacht, Squire, Williams, Woolley, and Young. The deputation from the Executive Committee of the Chemists and Druggists' Trade Association consisted of Mr. John Harrison, President; Mr. W. G. Cross, Vice-President; Messrs. Thomas Barclay, C. B. Bell, J. Maltby, W. H. Parker, and W. F. Haydon, Secretary.

The regular monthly meeting of the Pharmaceutical Council was held on January 7. The members present were those named above, with Mr. Symes.

The first business was the appointment of a

NEW MEMBER OF COUNCIL

in the place of Mr. F. Andrews, resigned. Mr. Hills nominated Mr. Charles Bowen Allen, of 20 High Road, Kilburn, to fill the vacancy. Mr. Hills remarked that Mr. Allen would

represent locally much the same district as Mr. Andrews, but that, having been pharmaceutically educated in Cornwall, he had considerable knowledge of country wants Mr. Allen had given much of his spare time in support of the Society, and had taken part in pharmaceutical politics, showing much common sense. He referred to letters from him in the Lancet, the Pharmaceutical Journal, and THE CHEMIST AND DRUGGIST. Mr. Hampson seconded the motion, which was carried unanimously.

The following names were restored to the register: Thomas Wakefield, Six Ways, Brookfields, Birmingham. William Woodhouse, 6 Haddon Street, Gorton, Manchester.

The name below was added to the register:-George Andrew, Rainham, Kent.

BENEVOLENT FUND.

A donation of 100l, had been received from a lady who did

not wish her name to be published.

The report of the Committee recommended four grants of 10l. each to widows of four chemists only one of whom had been connected with the Society, 15l. to an unsuccessful candidate at the late election of annuitants, and 101. towards the support of the Isherwood orphans. One case had been deferred for further inquiries.

The recommendations were adopted.

At a subsequent stage of the day's business Mr. ROBBINS brought forward the following resolution:-

That the Council may in their discretion increase the amount of the annuities to those annuitants who have contributed 51., 101. or 151., to the Benevolent Fund, such increase to be 51, 101, or 151, according to the total sum subscribed or contributed.

Hc desired that this proposal might be referred to the Committee for consideration. He wanted to reward those who had been subscribers, and he believed such a plan as he suggested would increase the subscriptions. In reply to Mr. Radley, he said he intended widows to take the place of subscribers.

The Vice-President thought it was a splendid rate of insurance if a man should subscribe 10s. 6d. for thirty years

and then get an annuity of 50l.

Mr. HILLS objected to make the Benevolent Fund into an insurance business, and said that in giving assistance the Council ought to be guided solely by the necessities of the applicants.

The proposal was ultimately referred to the Benevolent

Fund Committee.

THE PHARMACY ACT.

The General Purposes Committee reported that John Billinton, 12 New Bank, Halifax, had paid the sum of 51.9s. as penalty and costs into Court. Other alleged infringements had been examined, and proceedings were recommended in three cases.

PHARMACY IN ST LUCIA.

The President reminded the Council that in 1882 the Colonial Secretary sent to the Council a copy of an ordinance relating to pharmacy and the sale of poisons in St. Lucia. The Council made certain recommendations to the Government. A new ordinance had been received from the Colonial Office, from which it appeared that their recommendations had been practically carried out.

INTERNATIONAL PHARMACEUTICAL CONGRESS.

The President reported the receipt of a communication from Mr. Bastelaer, of Brussels, stating that the next meeting of the International Pharmaceutical Congress would be held in Brussels in the autumn of this year, and mentioning the principal subjects proposed for discussion.

Modification of By-Laws.

Pursuant to notice, the PRESIDENT moved:-

"That the report of the By-laws Committee be adopted, and the draft by-laws presented by the Committee be approved, and read a first

He explained that to make a formal alteration of the by-law s

it was necessary that the Council should read them three times; then they must be approved by a special general meeting of the Society; and, lastly, they must be confirmed

by the Privy Council.

The main purpose of the alterations was to deal with the re-examinations. They also proposed to constitute two classes of non-paying members, one to be ealled "honorary and the other "eorresponding members." they provided for changing the Modified examination, so that all Modified men who presented themselves three years after January 1, 1886, should be examined in the same manner and the same subjects as are the Minor candidates at present. Another proposition, which had been suggested at the previous Council meeting, and which he should put as a verbal alteration, was, that after that time this class should pay an increased fee. The intention of the legislature clearly was that those men should register within a short time after the passing of the Aet, and it was a defect in the Act that it did not provide that, if not examined within a certain time, they should lose the benefit of the special provision made for them. The other alterations, with the exception of those referring to education, were mainly verbal, and had reference to the duties of the treasurer and secretary, and other minor matters.

The alterations in reference to the examinations (the PRE-SIDENT stated) had been practically approved by the Council in March, 1883, and had been ratified by the General Meeting at that time, and he believed there existed, among members and others, an almost unanimous wish that some such scheme should be at once proceeded with. To wait for a new Act of Parliament before strengthening the internal arrangements seemed distinctly disadvantageous. Speaking from an experience as an examiner of twenty years, he was sure that the examiners themselves were not satisfied with the examinations, and would not be satisfied without some evidence of previous training. Moreover, the trade at la was dissatisfied with the result of the examinations. Moreover, the trade at large was often said, "When a man has attained your qualification, he does not know much about his business." The real object was to provide the trade and the public with safe men, who could be relied upon; to return in the form of a curriculum, and certain conditions precedent to examination, to what might be called a species of apprenticeship as used to exist in olden times. Of course a perfect form of apprenticeship extending over five or six years, where the master was a conscientious capable pharmacist who knew and was willing to teach all the subjects well, was practically at an end, and it would be useless in the present state of public opinion to pass a by-law insisting that a lad should be apprenticed for five years. A shorter apprenticeship was now insisted upon by those who came into the trade, and had to be aecepted. It was therefore necessary to supplement that term with such conditions as should make the candidate feel all through his apprenticeship that there was something for him to learn to do besides the mere passing of an examination: that he must obtain knowledge and digest it, and come up, having passed the preliminary part of the examination before apprenticeship, for an intermediate examination, which would act as a stimulant to him to continue his work while he was fulfilling his indentures. It would be a benefit to the public, and to every chemist and druggist, but it would be a perfect godsend to the candidates. They were at present like sheep without a shepherd; they neglected their studies during their apprenticeship, and did not know, many of them, until they got to years of discretion, what they had to do in order to be registered. They came to London, and the very first wolf roaming about, who guaranteed the immediate passing of the examination, found them an easy prey to his designs. Granting that the seheme would be a slight hardship on the comparatively poor lad, who was clever and able, who might possibly be able to pass through a respectable apprenticeship and obtain a very good knowledge and work hard under the guidance of a good master, and so pass the examination and be an excellent chemist and druggiststill regulations must be made to suit the great mass of candidates, of whom probably 95 per cent. were at the present moment undergoing some sort of a curriculum. An irregular curriculum was demoralising to them; and, in fact, encouraged them from the very nature of things to neglect their apprenticeship duties, and to wait until the time when they came to London to get all the information in three,

four, or five months, which they should have acquired in the previous three years. Briefly, the scheme proposed: (1) a preliminary examination dealing with arts; (2) an examination dealing with prescriptions, elementary chemistry and pharmacy, conducted in writing, and near the candidate's own home. After that, or before, he should attend certain courses of lectures which were not long, and need not be expensive. Then (3) came the practical examination, which he could not enter for until he was twenty-one, and when would be required evidence of three years' training in the shop of a registered chemist and druggist, and of having attended a course of lectures in chemistry, botany, materia medica, and a course of practical chemistry. things could be done by any young man during his apprenticeship, assuming there was fair material in him. The total examination fee would be raised from five to eight guineas. Candidates for the Minor examination, whether it was altered or not, should really pay the total cost of their examination, which at present they did not. The Society was now, if the proper proportion of the incidental expenses were debited, certainly not a material gainer by these examinations. As the class of chemists and druggists was created by statute, having certain rights and privileges, and the Society had to spend large sums of money in law expenses to protect those rights, it seemed perfectly equitable that those coming into the calling should pay such a reasonable fee as should cover all the expenses of the examinations and the proceedings involved in protecting their interests.

Mr. SAVAGE seconded the motion.

Mr. Radley asked a question with regard to the elections to the Council. As he understood, when the old race of chemists and druggists was disposed of the election would be entirely in the hands of pharmaceutical chemists. Would associates in business have that privilege?

The PRESIDENT said they would have a vote, but could not sit as members of the Council.

Mr. RADLEY said in future the associates in business would most likely be the great majority, and it struck him it would be only fair if further privileges were accorded them.

The President said the Act would not allow the alteration of the constitution of the Council by by-law.

Mr. Bottle would like a provision introduced into any new Bill that associates in business should be eligible as members of the Council.

The PRESIDENT said that in the draft Pharmacy Bill it had been proposed that in future such men should be pharmaceutical chemists. The policy of the Council was clearly in that direction.

Mr. Hampson was entirely with the committee in the necessity for instituting a curriculum, for he felt that something like a proper code of training for young men was wanted, but he did not consider the Council had the power to make this alteration by means of the by-laws. When in 1883 a committee considered what was necessary in regard to the training of young men, it never entered anyone's mind that it could be done simply by passing new by-laws under the old Acts of Parliament. Was it wise to so far stretch an Act of Parliament that the Society might meet with a rebuff from the Privy Council? The solicitor did not advise the Council that the Society had such power even now. He moved, as an amendment—

That the report of the By-laws Committee be received, and the draft by-laws presented by the Committee be submitted for the opinion of counsel for the purpose of ascertaining if the by-laws proposed are in conformity with the power and authority conferred upon the Society by the Charter and Pharmacy A 10 of 1852 and 1868.

Mr. Borland seconded the amendment. He considered these proposed by-laws were repugnant to the Acts of 1852 and 1868. In 1852 Jacob Bell, in advocating the Act of that year, said distinctly that the Society was purely of a voluntary character, that no young man was compelled to present himself for examination, and that he could get his education wherever he pleased, and if he presented himself to the examiners he should receive the qualification which the Society was prepared to give him. In 1868 the same view was entertained, that it was a voluntary Society, and the imposition of anything like a curriculum was never thought of.

How was it that, with these views expressed in 1852 and 1868, such a change had come over the spirit of the Council that it could now turn round and say it had power conferred upon it by these Acts to impose a curriculum, and alter the by-laws in such a way as to render them, in his view, altogether repugnant to the wording and the spirit of those two Acts. On that ground alone, he though it was quite proper to obtain the opinion of counsel as to the position the Council was able to take up. At the last previous meeting Mr. Greenish had very broadly put the question to the President as to the opinion of the Society's solicitor, and, although it would probably be unparliamentary to say the reply was equivocal, he must say it was not so direct and definite as he should have liked to hear. He was not opposed to the curriculum. As to fees he found that during the past seven years the amount derived from the examinations, Major, Minor, and Preliminary, amounted to 33,000l.; whilst the expenses, not referring, of course, to the keeping of the establishment and so on, but the amount paid to the examiners in every shape, including the College of Preceptors, was 14,900l., leaving a clear profit of 18,000l. derived from the examinations. Consequently he did not see any great necessity to impose additional fees on candidates.

Mr. WILLIAMS had no wish to oppose the principle proposed in the new by-laws, though there were some matters of detail which he could not altogether agree with, the principal one being the division of the Minor examination into two parts, and also that the first part should be a written one conducted in centres in the country.

The VICE-PRESIDENT had at one time some doubt as to the desirability of the curriculum, but experience in the examinations had led him to the conclusion that for the candidates it would be an unmixed benefit. He regretted that increased fees were necessary. But he believed the President was nearer correct than Mr. Borland. As the examinations were an important part of the Society's work, it was hardly business-like to eliminate all the establishment expenses. As to the legality it would be absurd to submit to the Privy Council by-laws which were ultra vires, and if their solicitor said this action would be contrary to the Act, it would be unwise to go directly in the teeth of his advice; but, as he understood, the Solicitor consented to these proposed alterations.

Arguments in favour of the motion were continued by Messrs. Symes, Schacht, Young, Hills, Gostling, Woolley, Robbins, and Bottle. Several gentlemen appealed to Messrs. Hampson and Borland to withdraw their opposition, but the amendment was pressed. Only the mover and seconder voted for it, though Messrs. Churchill, Radley, and Williams did not vote against it. All voted for the original motion except Messrs. Hampson and Borland, who opposed it, and Mr. Williams, who did not vote.

THE LOCAL GOVERNMENT BOARD AND THE ADULTERATION OF DRUGS.

The President commented on the statement which had been published in the Daily News, and copied by the Lancet, founded on the report issued by the Local Government Board in respect to the adulteration of drugs. The report did not justify the Daily News in saying that one-fourth of the prescriptions in this country were incorrectly dispensed; but the table in it might have misled the paragraph writer into the notion that such was the case. There was no doubt a widespread desire that some one, possibly the President of the Society, should call public attention to the erroneous and misleading character of this paragraph. But after consideration and consultation he had preferred to consult the Loca' Government Board authorities on the subject, rather than write an indignant letter to the newspaper in which the paragraph appeared. He thought the trade might be content with the assurance which he had obtained, that in future such attention should be paid from that department as would prevent the possibility of such gross misrepresentations of the wording of the report. He had preferred preventing the re-currence of such a thing another year to rushing into print and placing the Society in apparent antagonism to the public analysts.

Pharmacentical Society of Freland.

THE monthly meeting of the Council was held on the 7th inst.

The President (Mr. J. E. Branker, M.A.), in the chair.

Present: Dr. Collins, Dr. Montgomery, Dr. Evans, the Vice-President, Professor Tichborne, Mr. Doran, Mr. Hayes, and Mr. Simpson.

Before entering on the business of the day the President read a letter which had been handed to him by Dr. Duffey, one of the examiners for the licence, who had received it that morning. The letter purported to emanate from a firm of wholesale druggists in Dublin, was dated from 36 Bride Street, and bespoke the interest of the examiner on behalf of one of the candidates whom he was about to examine. Such a scandalous proceeding should be exposed, and it should be made perfectly clear, both to the public and to future candidates for the license, that there was no back-stairs to the licence of the Society. Some indignant comments were made by other members of the Council.

The letter which was subsequently read expressed the hope that Dr. Duffey "would do all in his power to get him the licence," and apologised for the liberty taken.

Among other correspondence a letter was received from the Provisional President of the International Pharmacoutical Congress intended to be held at Brussels at the end of August, 1885, inviting the attendance of representatives of the Irish Society, and also its co-operation.

The VICE-PRESIDENT (Mr. Draper) said that he and Professor Tichborne were members of the Committee for the revision of the International Pharmacopeia, and in that capacity they proposed attending the Congress. If at the same time they could act as delegates from the Society they would be happy to do so.

The President, the Vice-President, and Dr. Tichborne were

named as delegates from the Society.

A letter was read from Mr. G. Lane McCormic, L.P.S.I., of the Pharmacy, Monkstown, county Dublin, recommending the Council to form a school of chemistry for pharmacists, and to take other steps to induce licentiates in pharmacy to become members of the Society. At present anyone aspiring to be a pharmacist had to produce a certificate of having attended a practical chemical course, and the writer urged that the Council should devote one of their rooms to the establishment of a chemical school. The expense, he considered, would be as nothing compared with the returns which would be derived from it. There were on the Council professors of chemistry and pharmacy fully qualified to teach, and he was sure they would all agree that the Society ought to have its own school of chemistry. As regarded membership of the Society, he would be too glad to join it if adequate advantages were offered. He recommended the establishment of a reading-room, in which members could read in the day, and hear essays and debates at night; and in which lectures could occasionally be given by members of the medical faculty. The writer believed that these additions would soon swell the number of members of the Society.

The PRESIDENT said he sympathised with a good deal of what the writer proposed, and would be very glad to see a school of chemistry established in connection with the Society, but it was all a question of ways and means. Had they the means of starting it, and if started would it pay? He was afraid that their experience of evening meetings was not favourable. He would be very glad to see the licentiates of the Society and students coming forward and going in for practical work. The Council would give them every assistance in their power. The only thing they could do at present in response to the letter would be to appoint a committee to inquire whether the proposals were practicable or not, and to report to the Council.

Dr. Montgomery did not see why such a school as he

suggested should not be opened.

Mr. HAYES did not see why the professors should not put their heads together and see whether what was proposed could be carried out. Ten years ago, at the time of the Chemists and Druggists' Society, they had a school of fifty or sixty young men, who seemed most anxious to learn. Now there were a great number of young men most anxious for education. He learned a few days ago that there was a chemical school in connection with South Kensington formed in the Mechanics' Institute, Lower Abbey Street. It had a class of about thirty members, and the geatleman who taught them was satisfied with the result fees which he got from South Kensington. If the Society started such a school they would probably have more members, and their professors might get larger fees, as well as good result fees if it were associated with South Kensington.

The Vice-President said their experience of evening meetings went to show that the Irish pharmacist, once he was ranufactured into one, was about as apathetic a person as could be well met with; and the assistant he employed was not much better. The papers at these meetings were contributed by three or four persons at the most, and the meetings eventually dwindled down into a mutual admiration society. On the other hand he was willing to believe, with Mr. Hayes, that if a school were established for the purpose of educating the future pharmacist, and enabling him to pass his examination, it might succeed, and he was nearly certain that if it were opened at night it would succeed. Students would come to it in preference to other schools because of the prestige of the Society, but it should be a night class

Dr. Collins: Medical students would come to it also.

Dr. Montgomery: A few years ago we established an evening school of the kind in connection with the Apothecaries Hall, for teaching pharmacy and chemistry, and we got

a good many students.

The PRESIDENT said excellent work was being done by the evening meetings of the British Pharmaceutical Society, and he thought this might be traced to the work done by the School of Pharmacy at Bloomsbury Square. The new generation of pharmacists who had received their education there were deeply engaged in original research and other practical pharmaceutical work, which did credit to both the school and the Society.

The VICE-PRESIDENT said gentlemen would remember how well attended and successful was the night school of chemistry conducted some years ago by Professor Galloway at the Royal College of Science. There was nothing in Dublin representing it now.

PRESIDENT: Nor in Ireland.

The VICE-PRESIDENT said there was an entire machinery at the College of Science, Stephens Green, going to waste; and he thought it would be a most reasonable request to ask the authorities of South Kensington to grant the Pharmaceutical Society of Ireland the use of that machinery and lecture-room on certain evenings.

Professor Tichborne said that night classes for chemistry had existed in Dublin for years. Almost all the men who presented themselves at the examinations of the Society were educated at the night classes of the Carmichael or Ledwich

Schools of Medicine.

After some further conversation to the same effect a committee was appointed to consider the matter referred to.

The other correspondence read had no general interest,

It was reported that at the Preliminary examination held on Monday, January 5, fourteen candidates presented themselves, of whom twelve passed.

Some financial business having been disposed of the Council adjourned.

To CLEAN IVORY.—Scrub well with a new soft toothbrush, some soap and tepid water; then dry the ivory and the brush, dip the latter in alcohol, and polish the ivory until it has regained its former polish. If the water has given the ivory a yellowish tint, dry in a heated place. If the ivory has grown yellow with age or careless handling, it can be bleached by placing it under a glass bell, with some chloride of lime and muriatic acid in a small vessel, and setting the whole thing in the sunshine. Be careful not to inhale the fumes of the acid as it works on the lime. The bleaching properties of the chlorine destroy the yellow colouring matter in the surface of the ivory, and it resumes its original white tint.—Jeveller and Metal Worker.

Metropolitan Reports.

FIRE.—On January 6 a railway-arch near South Bermondsey Station, Southwark Park Road, occupied by Mr. R. Ramsden, chemical and colour merchant, was entirely burnt out. Though a large number of fire-engines attended, not a drop of water could be obtained.

STEALING CARMINE.—At the Middlesex Sessions, before the Assistant Judge, Henry Newton, 33, colour-maker, and John Martin, 38, carpenter, were indicted for stealing 4 lbs weight of carmine, value 4*l*., belonging to Messrs. William & John Bush, the Ash Grove Chemical Works, Hackney, chemists. Mr. Ernest Beard prosecuted, and the jury having found both prisoners guilty, Newton was sentenced to six months', and Martin to 14 months' imprisonment, with hard labour.

Messrs. F. Allen & Sons' Dinner.—The staff of Messrs. F. Allen & Sons, the manufacturing confectioners of Mile End, held their second annual dinner at the London Tavern, Fenchurch Street, on December 27. According to the speeches delivered it appeared that bad trade had not reached this firm, and the display they made at the Health Exhibition last year was credited with a portion of their success. Mr. S. Allen said he regarded their success as indeed complete when on July 24, or rather early in the morning of the 25th, he saw the Prince and Princess of Wales, on an occasion they would remember, selling goods of Messrs. F. Allen & Sons at the stand they occupied in the exhibition.

Christmas Tree at the Homgopathic Hospital.—On the evening of Thursday, January 8, the usual Christmastree entertainment, given to the patients of this hospital, took place, a numerous company assembling to assist in the amusements provided for such of the patients as could bear the mild excitement of the occasion. Of course the little inmates, joined by a number of poor children who have been in the hospital during the past year, fully appreciated the good things provided for their comfort. The funds for the purpose are contributed by the Board of Management and the medical staff, supplemented by gifts of toys and clothing by liberal friends, and are chiefly expended in useful presents, articles of woollen clothing, and other gifts of a kind likely to be beneficial. Several friends assisted in the amusements.

ARTESIAN WATER-SUPPLY.—Messrs. Howards & Sons, chemical manufacturers, of Stratford, have just established an independent water-supply of over 40,000 gallons per day to meet the requirements of their works. This has been obtained for them by Messrs. Le Grand & Sutcliff, of London, who have sunk one of their artesian tube wells, 250 feet deep. An unusually varied number of strata (interesting from a geological point of view) was passed through before reaching the chalk, from whence the supply is drawn, which was met with at 132 feet below surface. It is calculated that an economy of between 300l. and 400l. per annum will thus be effected in water-rates alone, while a further advantage and saving is derived from the fact that the water so obtained is remarkably pure and of uniform quality and temperature, enabling it to be used in its natural state for many purposes for which the water company's supply could only be employed after distillation.

SUICIDE OF A CHEMIST'S ASSISTANT.—On January 7, Mr. Langham held an inquest at St. Bartholomew's Hospital relative to the death of Albert John Pickering, aged 20, a chemist's assistant, late of 57 Farmer's Road, Kennington who committed suicide by taking a quantity of oxalic acid in Worship Street on Sunday, January 4. The mother of the deceased said that for some time past he had been mentally depressed owing to not being able to get on in business, but had not at any time threatened to destroy himself. He had a situation to go to on the 29th ult., and he left home ostensibly to go there, but nothing more was heard of him until the Sunday, when the witness learned that he had been taken to the hospital suffering from the effects of poison. Police-constable Wraight, 177 G, said that on Sunday afternoon, about 3 o'clock, he was on duty in Worship Street,

when the deceased came up to him and said, apparently in a jocular tone, "Policeman, I have poisoned myself." The witness took no notice at first, but the deceased then showed him a packet labelled "oxalic acid," saying at the same time, "Here is the rest of the poison." He immediately afterwards commenced to vomit, and the witness, calling a cab, took him to the hospital, where he shortly afterwards expired. A letter was found upon the deceased, addressed to his mother, in which occurred the following passages:—
"I have overrated my strength. I cannot combat the hardships and privations of a precarious life. I have not strength to endure cold or hunger. I feel my mind giving way." Dr. Brown, house physician, deposed that death was due to poisoning by oxalic acid. The jury returned a verdict of suicide while suffering from temporary insanity.

Probincial Reports.

BIRMINGHAM.

Notes written for THE CHEMIST AND DRUGGIST.

Christmas time passed away very quietly. On Bank Holiday most chemists closed till evening, but several were open entirely. We did not hear of one closing on Saturday.

Shares of the Birmingham Household Supply Association (Limited) have fallen from 2 to $1\frac{1}{2}$. Is this a sign of the times, or is it the shadow of Lewis?

Apropos of your recent prize for chemists' circulars, the extremely neat and delicate way in which a leading tradesman of this town annually reminds his customers of their indebtedness to him is noticeable. He does not send in his account with the vulgar demand, "Please remit at your earliest convenience," but a circular accompanies the account, with the polite explanation that it is forwarded that any inaccuracies may be checked by his customers and rectified in the annual making up of his books. Of course, there are not any errors; but if there were, what customer, after such a display of tenderness for his susceptibilities, would have the heart to point them out, unless he intended at the same time to pay?

A grocer in the suburbs has started the cutting-trade with goods and prices as below. The articles mentioned are printed on slips and fastened on separate squares of his window:—Soft Soap, $2\frac{1}{2}d$. per lb.; English Linseed, 2d. per lb.; Mixed Pickling Spice, 10d. per lb.; Colman's loose Mustard, 10d. per lb. A chemist exactly opposite has replied by handbills distributed from door to door, quoting as under. It is needless to state the chemist has decided "to live by the loss":—"Finest White Pepper, 1s. 2d. per lb.; Strong Pickling Vinegar, 8d. per gallon; Mixed Pickling Spice, 8d. per lb.; Colman's genuine Mustard, 9d. per lb. (Not condiment as usually sold by grocers, &c.)"

Mr. S. Anderton has opened business as a wholesale druggist at 62 Bissell Street; and his old shop, 146 Gooch Street (which was formerly conducted by Pare Brothers), with the retail trade attached, has been purchased and will be carried on by Mr. H. Johnson.

Mr. Sanders has purchased the business lately carried on by Mr. F. Cowdery, Hockley Hill, Birmingham.

Tuesday, December 16, witnessed the break-up (stock, fixtures, furniture, &c., coming under the auctioneer's hammer) of an old-established business, carried on for upwards of twenty years, by the late Mr. Kimberley, at 82 Jamaica Row. Many years ago Mr. Kimberley anticipated the half-day holiday movement by closing all day on Wednesdays, and the later years of his life he also closed on Fridays. It was no matter to him what his neighbours did, he pleased himself. Fishing was his favourite pastime. This makes three businesses within fifty yards of each other which have been closed during the last few years.

A gentleman connected with a well-known house in London, who had special instructions to call only on chemists whose names were on the register, to show them a new work pecially published on their behalf, said he found there were

more unregistered men trading as legitimate chemists in Birmingham than could be found in London, Liverpool, Manchester, Salford, or any other large town in which he had been, and mentioned several names in proof of his statement. One such person politely told our informant "that he had no time to prepare." Is it to be wondered at that the Chemists' Trade Association is gradually losing the confidence and support of registered men if it ignores such unfair trading at its very doors?

A well-known familiar face "on the road," as well as on the Wednesday morning Exchange, is lost to us. On December 15 (exactly six years after his father death) Mr. Charles Bird, elder son of the late Alfred Bird, quietly passed away at the Firs, King's Heath, in his 41st year. Frank, genial, open and kind of heart, he was generally recognised as too good-natured. Formerly he was one of the partners in the old-established firm of A. Bird & Sons, the well-known chemists and baking-powder makers, and was their principal traveller. He had more than his share of sorrows. His first wife died after eight weeks only of married life; and it was whilst attending the funeral of a relative news was brought him that his second wife was dead. His widow is sister to his second wife, and was married in Switzerland. Five children also survive him. The immediate cause of death was dropsy.

On December 13 an inquest was held on the body of Charles Taylor, Adam Street, labourer at an electroplating-works. On December 8 the deceased and a young man were lifting a carboy of vitriol weighing 203 lbs., which fell and broke, the contents escaping. The fumes had such an effect on him that they produced inflammation of the lungs, from which he died. The jury returned a verdict of "Accidental death."

On January 1 an inquest was held on the body of Jane White, aged 59. She had been drinking rather heavily, and on December 23 was found dead with a cup by her side which had contained vermin-killer. Mr. T. T. Weaver, chemist, said he had sold deceased a packet of vermin-killer on December 24 for poisoning mice. The verdict was "Death from poisoning, but how or by whom the poison was administered there was no evidence to show."

The coroner held an inquest on January 1 as to the death of Horace Smith (4), who lived with his parents in Lodge Road. The child being ill, the mother sent a girl twelve years of age to Mrs. Stokes, who, with her daughter, carries on the business of a druggist in Unett Street. From the description given of the child, Mrs. Stokes diagnosed the case and supplied medicine. Miss Stokes said her mother had carried on the business since she became a widow, twenty-two years ago, and was in the habit of making up prescriptions, as also was witness. The business was very extensive. In reply to the coroner the witness said her mother had not had any practical training, but had learnt the dispensing of chemicals and drugs, she having passed the requisite examination of the Pharmaceutical Society. Cases would be diagnosed from statements made by a child of even twelve years of age, because it would be thought that the mother had given a proper description of the illness. The child was treated for low fever, whereas, according to Mr. Newton, surgeon, who examined the body, death resulted from a series of diseases, the result of improper treatment at earlier stages of the illness. Andrew Smith, the father of the child, when questioned as to why he did not obtain medical aid, said he thought his child was going on all right. Mrs. M. Stokes, chemist, said she had made up a prescription for the deceased. She had never seen the child, but made the medicine from the description of the symptoms by the little girl. The jury returned a verdict of "natural death," accelerated by gross parental neglect, and adding they considered it was a most reprehensible practice to prescribe without seeing a patient.

THE Midland Counties Chemists' Association announce that their fourteenth annual soirée and ball will be held at the Town Hall, Birmingham, on January 23. Tickets should be applied for at once from Mr. C. Thompson, 159 Stratford Road, Sparkbrook. The profits go to the Benevolent Fund of the Association.

THE Educational Class under the auspices of the Associa-

tion has commenced fairly well. A room has been taken in New Street, and has been fitted with benches and desks. The attendance at the Minor class at present varies between ten and twenty. The secretary writes:—"We should be glad of donations of books for our library, original prescriptions, materia medica and other specimens for a museum and for the use of the lecturers. Professor Redwood will deliver the inaugural address (subject, 'Education and Examination,') at the Grand Hotel, on Wednesday evening, January 28.

BRISTOL.

ATTEMPTED POISONING.—A servant girl has been committed for trial at Bristol for attempting to poison her mistress and two visitors by putting furniture polish in their tea.

EDINBURGH.

As we go to press the Edinburgh Chemists' Ball is passing off very successfully in the Literary Institute, South Clerk Street. Over 200 ladies and gentlemon attended.

Mr. George D. Mackay has disposed of his dispensing business at 119 George Street to Mr. Peter Boa, who has had the management of the business for some years. Mr. Mackay devotes his attention to the wholesale business of John Mackay & Co., Canning Street.

Another Prosecution under the Dentists Act.—In the Sheriff Court on January 9, before Sheriff Rutherford, William Robertson was charged, at the instance of Frederick Canton, hon. secretary of the British Dental Association, with having, in November last, contravened the Dentists Act of 1878. It was alleged that he, not being a person registered ander the Act, and not being a legally-qualified medical practioner, unlawfully used the word "Dentist" on a brass plate on the gate of his house at 28 Rankeillor Street, on a lamp in front of his house, and in advertisements inserted in three different newspapers. The accused, who was convicted of a similar offence in October last, when he was fined 5%, pleaded guilty, and the sheriff imposed a penalty of 20%, with the alternative of twenty-one days' imprisonment. The fine was paid.

Edinburgh Chemists' Assistants' and Apprentices' Association.

This Association turned out in good numbers on Dec. 17 to hear a paper on "The Life of a Plant," by Mr. Thomas Stephenson. In this paper the better-known facts of vegetable physiology were narrated in a pleasing manner, and the essayist recounted the more recently acquired knowledge on such points as the action and composition of ehlorophyll, the formation of starch, &c. The paper was well illustrated, and called forth a long discussion, during which the essayist received some flattering compliments. On January 7 the Association again met in open meeting. Two apprentices contributed papers—Mr. Boyd on "The Eye and its Structure," which he treated from a pharmaceutical point of view; and Mr. A. R. Bennet wrote on "Rhubarb," the discussion on which was delayed. Between the papers was an interval, during which those present examined a collection of Maori relics exhibited by Mr. William Aitken, who gave a description of his exhibit.

HAWICK.

THE ELECTRIC LIGHT.—Consequent on a recent successful experiment by the Town Council, a meeting of shopkeepers was held last month in this town. Mr. Maben, chemist, made a statement to the effect that the lighting of his shop cost him 3l. 4s. 6d. annually, and that, according to a calculation he had made, to light his shop with electricity would cost 4l. 16s. 6d., the difference in favour of gas being 32s.; still, he was willing to pay the difference for the electric light, which, he considered, would be better and steadier. During the conversation which ensued it was stated that the Town Council had under consideration the advisability of lighting the principal thoroughfares with electricity for a year as a further experiment, and ultimately it was agreed to wait and see what steps the Council might take.

GLASGOW.

PRESENTATION.—One evening last month the Virginia Street employés of the Glasgow Apotheearies' Company met for supper, Mr. John Walker in the chair. The event of the evening was the presentation of a handsome dining-room timepiece and ornaments to Mr. Robert M'Adam, the managing partner of the company, together with a beautiful gold brooch for Mrs. M'Adam. Both gifts bore suitable inscriptions. The occasion of this presentation was Mr. M'Adam's removal to a new house. Mr. M'Adam was taken quite by surprise by these gifts. The speeches were congratulatory and cordial.

THE GRAHAM GOLD MEDAL.—The Graham gold medal, founded in memory of Dr. Graham, is awarded triennially for the best chemical research during the preceding three years. It is open to the world, and is accompanied only by the condition that a paper embodying the results of the research must be read before the Chemical Section of the Glasgow Philosophical Society. Awarded, 1884, to Edward C. C. Stanford, F.C.S., ehairman of the Glasgow and West of Scotland Section of the Society of Chemical Industry. It was presented by Dr. J. B. Russell at a meeting of the society on December 17, in the absence of Mr. J. J. Coleman, the president. Dr. Russell read a letter from Mr. Coleman to himself requesting him to present the medal to Mr. Stanford, to whom it had been awarded by Professor Crum Brown, of Edinburgh, the adjudicator for 1884. Mr. Coleman continued:—"Twenty years ago, or more, Mr. Stanford conducted in a London scientific laboratory experiments upon seaweeds, in which he showed that by retort distillation being employed in the place of open air calcination (as then practised) most valuable chemical products, including iodine and bromine, could be recovered. With great energy Mr. Stanford organised large manufacturing operations in the Western Islands of Scotland for carrying the process into practical operation, and, although other sources of iodine and bromine being discovered in Peru and Chili interfered with the profits of the undertaking, nothing could dim the brilliancy of the researches which inaugurated it. Mr. Stanford was not, however, daunted, but returned to his old love, and has recently succeeded in extracting from seaweeds, by another process, large quantities of an elastic gummy substance which he ealls "algin," which promises to be valuable in the arts, and to find profitable employment for the indigent population of the Western and other islands where seaweeds accumulate in prodigious quantities. It is for this paper that the medal is awarded, but we cannot forget that it is merely the culmination of the work of nearly a quarter of a century by a chemist whose great ability has been long acknowledged by his fellow-chemists, and whose patience and persistency is worthy of the highest admiration." Dr. Russell having presented the medal, Mr. Stanford made an interesting second in admiration that the second control of the second contro interesting speech in acknowledging the honour. course of his remarks he told how his work on this subject had brought him into direct friendship with Graham. (Mr. Stanford's) first paper was written in competition for the Trevelyan prize, a prize of 100%, offered some twenty-four years ago through the Society of Arts by Sir Charles Trevelyan for the best essay on the economic application of seaweed; the jurors awarded that prize to him, but for some reasons, which he need not enter into here, and which he never quite understood, it was withdrawn. Professor Graham, the principal juror, insisted that the prize should be handed over to him, and much correspondence with the donor and the Society of Arts ensued. The result was that he never obtained the prize, but he secured what was far more valuable and far more agreeable to him, and that was the lifelong friendship of the late Professor Graham. So highly esteeming the man in whose honour the medal had been founded, they would readily admit that in confiding this valuable token to him they were placing it in extra safe keeping. They were constantly informed that British manufacturing chemists were all on the road to the poorhouse, and some would have us believe that each day's work is only a step nearer to that unpretending but somewhat monotonous abode. It might therefore seem unsafe to give one of such paupers anything in gold; but this was not only a special honour to him, but also a valuable memorial of one of his truest and warmest friends, and he ventured to predict that it would

become a most precious heirloom in his family, and that, whatever Providence might have in store for them, the very last possession they would part with would be the Graham medal which the chairman had so graciously presented to him that evening. [Mr. Stanford's new process for working seaweed, and for obtaining from it not only the alkaline salts and the iodine, but also a new sort of gelatine called "algin," which we described in June last, is now, we understand, an actual commercial process. The algin is being used for many purposes for which celluloid, horn, or bone is now employed.]

KINGSBRIDGE.

MR. JOSEPH BALKWILL, ehemist, was summoned at the Kingsbridge Petty Sessions, charged with having manufactured coloured fires without holding a licence. We have previously reported the calamitous result of an explosion which occurred in his shop during the mixing of the composition, whereby his apprentice was killed. Mr. Balkwill was fined 19 guineas.

LINCOLN.

SUICIDES.—There was an epidemic of suicides in Lincoln during the second week of the year. A chemist's apprentice poisoned himself with 4 drachms of prussic acid and an unknown quantity of laudanum; a servant girl at the County Hospital drank half-a-pint of carbolic acid, and a spirit merchant hanged himself.

LIVERPOOL.

MR. HENRY TATE, a sugar-refiner at Liverpool, is presenting to that city a homeopathie hospital for the free use of the public. Mr. Tate's gift will cost about 10,000l.

ENORMOUS ARRIVAL OF LIME-JUICE.—The demand for lime-juice, caused by the war in Egypt, has been much in excess of previous years. The Hilda, which arrived at this port on Christmas Eve, brought no less than 60,000 gallons from the island of Montserrat, all of which was consigned to Messrs. Evans, Sons & Co., the sole consignees, making the unprecedented total for the year of over 180,000 gallons. This extraordinary quantity is due to the demand for our army in Egypt, which is supplied daily with rations of Montserrat lime-juice, which, we understand, is the only lime-juice that meets the requirements of the Government with regard to strength and quality.

FESTIVITY.—On January 2 Messrs. Ayrton & Saunders, of Liverpool, gave their annual supper and ball to their employés, numbering over 200. It was held at St. Luke's Schools, one room being devoted to refreshments and the other to dancing, &c. The latter was tastefully decorated. Dancing commenced at 8 o'clock, and, with songs and recitations interspersed, was continued till 12.30, when the party sat down to supper, at the eonelusion of which various toasts were given and responded to by the members of the firm and the heads of the different departments. Dancing was again resumed and kept up with great spirit till 6 A.M. It need hardly be said that the following day was observed as a holiday.

TIVERTON.

ALLEGED SLANDER.—Mr. Henry Wood, a chemist, of Tiverton, was sued last month by the Rev. Thomas Cooper, the pastor of a Congregational chapel in that town, for slander, and the case was heard before Baron Huddlestone in the Court of Queen's Bench. Mr. Wood was senior deacon of the chapel, and reports had been circulated respecting the minister's morality. In the course of the trial the counsel on both sides conferred, and agreed to stop the case on the understanding that all imputations on the plaintiff were withdrawn by the defendant, who had acted bonâ fide, but indiscreetly, in his zeal for the Church. The judge expressed his satisfaction at this termination, and added that he considered there was not the slightest foundation for the charges against the plaintiff.

PLYMOUTH.

SUDDEN DEATH.—On January 6 Mr. H. B. Snell, chemist, of Union Street, Stouehouse, died rather suddenly from an apoplectic fit. He was taking a walk on the Hoe about halfpast nine in the morning, when he suddenly fell to the ground. He was taken in a cab to the residence of Dr. Pearse, and thence to his home. On arrival at home, however, he was found to have expired. The deceased gentleman was about sixty-six years, and was widely known and respected, having been engaged in his business in Union Street for some thirty years or more.

SUDBURY.

PROSECUTIONS UNDER THE PHARMACY ACT.

ON Thursday, January 8, before the magistrates at Sudbury, Mr. Oxley, a tradesman, was fined 5l. and costs for contravening the regulations of the Pharmacy Act. He admitted having sold strychnine to several persons, including Orbell (a temperance-hotel keeper, who had previously been fined for selling strychnine, intoxicating liquor and game). On the last occasion he had sold nearly 2 oz. to Orbell.

The case against Orbell was heard some time previously

before the Castle Hedingham magistrates.

Some months since a number of the East Essex foxhounds were poisoned, and a large reward was offered for the discovery of the perpetrator of the act. A detective named Butcher was engaged, and he spent at intervals about six weeks at Sible Hedingham, Essex, lodging at a "temperance hotel," kept by an old man named Orbell and his daughter. As a result of his observation a number of charges were preferred against the landlord, his son, and daughter. William Orbell, the son, was charged with selling strychnine to the detective on three separate occasions during the present month, for the purpose, it was stated, of poisoning cats and dogs. The charge was laid under the Pharmacy Act, the defendant not being a chemist. He was fined 271.2s.6d., inclusive of the costs, or six months' imprisonment. Three other charges were preferred against him of selling game without a licence. He had sold to Butcher 11 head of partridges and hares, which he said he had bought from poachers. He was fined 131. The father, aged 73 years, and the daughter, aged 50 years, were then charged with selling intoxicating drinks without a licence on four different occasions, and were each fined 251. A large quantity of beer, wines, and spirits found on the premises was confiscated. The case created a good deal of excitement in the district.

WEYMOUTH.

POISONING BY CHLORODYNE.

On December 5 Miss Charlotte Bennett, aged 33, daughter of the proprietor of the Crown Hotel, took a large quantity of chlorodyne, and died next morning. The inquest was held on December 8, before the Deputy-Coroner, Mr. H. Symonds, Mr. C. G. Targett, chemist, being the foreman of the jury. There was much evidence to show that the deceased had been subject to attacks of religious depression, and had once attempted to commit suicide by taking chloral. Mr. Henry Tottles, assistant to Mr. Groves, chemist, St. Mary Street, proved that the deceased bought a $1s.\ 1\frac{1}{2}d$. bottle of chlorodyne on November 13, and a 4s. 6d. bottle on November 19, which were entered to her mother. Mr. Groves then gave instructions that no more was to be sold to her till he had seen her parents. Mr. George Henley, assistant to Mr. Smith, chemist, St. Thomas Street, proved that deceased purchased a 4s. 6d. bottle of chlorodync on November 20, having it booked to her mother. This witness was asked what security the British public had in the sale of this poison under ordinary circumstances, and replied, "None at all." Mr. James C. Runnells, assistant to Mr. Stedman, chemist, St. Thomas Street, said that deceased bought a 4s. 6d. bottle of chlorodyne, under similar circumstances to the above, on November 22. Dr. Tizard and Dr. Lush gave evidence as to the treatment adopted to relieve the deceased, and the former read in court an analysis of chlorodyne given him by Dr. Moorhead: - "Ten drachms would contain 6 drachms of

chloroform, & drachm of tincture of capsicum, oil of peppermint 3 minims, hydrochloride of morphia 8 grains, perchloric acid 20 minims, and prussic acid (Scheele's) 12 minims, tincture of Indian hemp 1 drachm, and treacle 1 drachm."

[If the newspaper report is correct this differs very widely from the formula published in Squire's "Companion," which gives 8 grains morphia, 2 oz. Scheele's prussic acid, 4 oz.

chloroform, 1 oz. ether in about 35 oz.]

Three 4s. 6d. chlorodyne bottles were found, but the report

does not state if they were full or not.

After a short deliberation the jury returned the following verdict:-"That this jury, having carefully considered the evidence generally, are of opinion that deceased died from the effects of chlorodyne, which she administered personally during a fit of temporary insanity. They desire to strongly nrgc that representations should be made to the proper quarter making it necessary that chlorodyne, and all other patent medicines of such a potent nature, should be placed under Part 2 of the Poisons Act."

The Coroner: I will take care that representations are

made to the proper quarter.

Mr. Milledge (one of the jury): Our object is that none but persons qualified under the Pharmacy Act should be able to sell these medicines.

The Coroner remarked that if chlorodyne did come within Part 2 of the Act, proceedings could be taken by the police against the chemists mentioned in this case.

WORCESTER.

DR. SWETE (the County Analyst) in presenting his report at the Worcestershire Quarter Sessions, stated, "that, whilst the amount of adulteration in food had been greatly diminished, more protection was required for the public with regard to drugs.'

PHARMACY IN JAMAICA.

(FROM OUR OWN CORRESPONDENT.)

JAMAICA, W. I., November 20.

THE general trade depression referred to in my last letter has attained rather large dimensions and as records has attained rather large dimensions, and as regards sugar and rum-staples of the island-it may be said to be at its climax. As a consequence, the sugar estates are on the downward track; some arc barely paying their way, and, unless a reaction of prices set in, others, it is feared, must be thrown out of cultivation. A reciprocity treaty between this colony and the United States is being talked of, which, if carried out, will entail a falling-off of import duty amounting to over 69,000%. This amount is proposed to be recovered by a judicious readjustment of existing taxation. But, whether such an arrangement will benefit the country to any appreciable extent is doubtful. The labour question is still a vexed one. The natives continue flocking to the The labour question Isthmus of Panama, where, despite the hardships encountered, they succeed in earning a living, and on their return appear, in the majority of cases, better off, at least pecuniarily,

John Chinaman has been imported at lavish expense to supply the vacuum caused by the exodus of native labourers, but he does not see the reasonableness of adapting himself to our loyal mode of living; and, as the outcome of his disloyalty, our prisons are being filled, and a feeling of discontent is gaining ground among our people. The Chinaman wants a dollar per day for work which the native, as well as the coolie,

performs for one shilling.

Considering the unsatisfactory state of commerce, the drug trade may be said to prosper fairly. Opium is much in demand by the Chinese, a few coolies being also patrons of the drug. The dispensing school at the public hospital continues flourishing, and pupils from there are to be found in nearly every hospital and Government dispensary throughout the island. I regret to mention the death of Mr. Charles The news reached us by cablegram from New York, where he had recently gone in search of health. Mr. Grant was chemist and druggist of Great Britain, and was established in Kingston for many years.

PHARMACY IN AUSTRALIA.

(FROM OUR OWN CORRESPONDENT.)

MELBOURNE, VICTORIA, November 14,

PATENTS IN VICTORIA.

A N important alteration has recently been made by the A Legislature in the laws relating to patents in Victoria. The new Act extends the period of protection on deposit of specification from six to twelve months. An alteration is also made with regard to the powers given to law officers of the Crown. Whenever there is a difficulty over the technical points of an invention the law officers are empowered to summon persons who could give evidence that would assist them in arriving at a decision. Another provision of importance grants the right of appeal from the decision of the law officers of the Crown to the Supreme Court. Power is also given to grant patents for foreign inventions within a year of the date of the original patenting, even although the article may already have been used in the colony. It often happens that after a man invents an article, and wishes to patent it in the colony, he finds that someone else, who had, perhaps, seen a notice of the article in an illustrated magazine or trade circular, had already introduced and patented it. Other effects of the Act will be that the colony will have the power to make arrangements with other colonies, so that a patent may be taken in Victoria which will give protection throughout Australia. The use of the word "patent" for articles not actually patented is pro-hibited. Claims in a specification are to be restricted. The Crown is not to have the power of using patents without paying for them. Judges in patent cases are to be empowered to employ assessors. Most important of all the changes is that the cost of patenting is to be reduced from 421. to 91. 28.

The fees charged in the other Australian colonies are as follow:—New South Wales, 201.; New Zealand, 91. 10s.; Queensland, 201.; South Australia, 111.; Tasmania, 421.; Victoria, 421.; Western Australia, 251. for registering patent,

50l. for new patent.

Mr. Gco. Lewis has resigned his seat at the Pharmacy Board. At the last meeting of the Board: he President spoke of the high respect and esteem in which Mr. Lewis was held by all who knew him, a sentiment that was endorsed by every member present.

The Council of the University have appointed Mr. C. R. Blackett examiner in chemistry at the Melbourne University, vice Mr. J. Cosmo Newbery, who retires.

Two important prosecutions have been taken under the Pharmacy Act this month. In the first case, Arthur Stillman was proceeded against for carrying on business at Seymour. The case was proved, and the defendant was fined 31., and 5l. 17s. costs; and for selling poison, one of the ingredients of a prescription, he was fined 2l., and 5l. 17s. costs. The other case was that of F. R. Martin, carrying on business as a tobacconist, in Russell Street, Melbourne. The defendant in this case also dispensed a prescription. The Bench inflicted a fine of 20s, and 1l. 1s. costs.

Mr. F. S. Grimwade, in a communication from London, stated that he is progressing satisfactorily in obtaining specimens for the museum at the College of Pharmacy.

Dr. E. H. Rennie, who has received the appointment of professor of chemistry to the University of Adelaide, obtained the high degree of B.Sc. in London, but his earlier studies were conducted and his honours won in the Sydney University.

The Council of the Pharmaceutical Society of New South

Wales, in their last report to the Board, state: "We also beg to draw attention to the increased number of candidates presenting themselves for examination, and it is with much satisfaction that we find distinct evidence of a very great improvement in candidates. They acquit themselves most creditably in all subjects, and show that great proficiency has been attained in the prosecution of their studies, of which they have given such ample evidence. We trust the Council will not delay in the establishment under its supervision of the proposed College of Pharmacy, which will greatly improve the opportunities for study and research to the students of pharmaey in this colony."

MR. JOHN MCKESSON, SEN.

MR. JOHN McKESSON, sen., has retired from the firm of McKesson & Robbins, the well-known wholesale druggists of New York. He has attained the age of 78 years, and is in the full possession of his faculties, enjoys remarkably



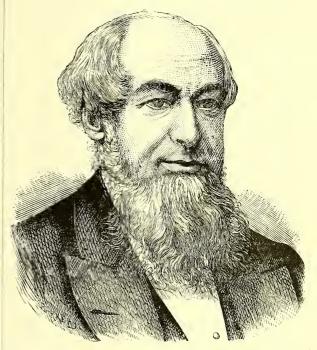
good health, as well as an abundance of this world's goods. On October 6 of this year, if spared, he and his wife will celebrate their golden wedding.

We learn from the Oil, Paint, and Drug Reporter a few particulars of Mr. McKesson's career. He was apprenticed to the drug trade, and in 1833, in association with Mr. Geo. M. Olcott, started in the wholesale business. Mr. D. C. Robbins came to the firm as a clerk, and proved such a valuable acquisition that after six years' service he was admitted to partnership. Mr. Olcott died in 1853, and the firm previously known as Olcott, McKesson & Robbins became McKesson & Robbins, as it has since remained, though in subsequent years Messrs. Gco. B. Gilbert, John McKesson, jun., Wm. Hull Wickham and Dr. Chas. A. Robbins were successively admitted to partnership. Mr. McKesson sells his interest in the business for \$500,000, and in the real estate for \$200,500. The sales of the firm at this date, Mr. McKesson told the reporter of the journal from which we quote, now aggregate over \$3,000,000 per annum. They employ over 350 persons, and pay \$16,000 per month in salaries.

MR. A. H. COX, J.P., BRIGHTON.

N December 15, 1884, a large number of the citizens of Brighton, with a few outside friends, met at a banquet to pay a tribute of respect to Mr. Alderman Cox, who had recently vacated the mayor's chair for the third time. Colonel Tester presided, and Mr. Cox, as the guest of the company, sat on his right, with the present Mayor of Brighton on his left. The company numbered in all about 160. General Shute, the Venerable Archdeacon Hannah, and other gentlemen replied to various toasts, and all expressed their esteem for the ex-mayor. The chairman proposed his health in a speech in which he recounted the long and eminent services which Mr. Cox had rendered to Brighton, and which had been performed "faithfully and well." The toast was drunk amid ringing cheers, and the chairman, on behalf of the company, presented the ex-mayor with a gold snuff-box suitably inscribed.

In expressing his thanks, Mr. Cox assured his friends of his deep sense of their sympathy, and of the honour they had paid him. During the past twelve months he had had troubles such as he hoped none of them would have to



endure. Briefly running through the events of his mayoralty, Mr. Cox mentioned that he had been on the Council ever since the incorporation of Brighton, and now, in his 72nd year, when he remembered the kindness which had been shown him, he hoped he might say to himself in the future that he had not lived in vain.

Mr. Arthur Hawker Cox, to whom these gratifying honours were paid, is well known in the drug trade, especially in connection with his manufactures of coated tasteless pills, which his firm made long before these luxuries became the objects of so much international rivalry. Mr. Cox has served all the municipal offices of honour which his adopted town could bestow, and apparently has won by his honest discharge of public duty the permanent respect of his fellow-townsmen He was elected mayor first in 1869, and again in 1882 and 1883. He was President of the Natural History Club in 1874, and among other offices which he holds at present is that of Chairman of the Brighton Aquarium. He holds honorary offices in connection with the Brighton Sailing Club and Rowing Club, and his little steam-yacht Sissie is a conspicuous object at regattas and sailing matches.

We have much pleasure in joining with the citizens of Brighton in complimenting the worthy alderman, and wishing him many more years of usefulness and honour.

TRADE MARKS APPLIED FOR.

From the "Trade Marks Journal," December 17, 1884.

- CARBON PASTE, with a label, for insecticides. Stevens & Co., 67 High Street, Borough, S.E. No. 38,726.
- ELECTRIC WASHING CREAM, with design, for a washing paste. Brunnfitt & Phippen, trading as Electric Washing Cream Company, 65 Leeds Road, Bradford. No. 39,224.
- THE TROPICAL, for acrated and mineral waters. By J. G. Nutting, Atlas Street, Liverpool, and at Dub.in. No. 39,535.
- Tuna, for chemical substances used in medicine and pharmacy. Abram Fels, trading as Fels & Co., 115 Strand, W.C. No. 39 922.
- DEECEE, for food and ingredients. Fr. Wm. Challen, 1 Wolsey Road, Islington, London. No. 39,927.
- Anchor (the word) and Dome, for laundry blue. Ed. James & Sons, Sntton Road, Plymonth. Nos. 40,041 and 40.243.
- DURESCO and a design, also CHARLTON WHITE and a design, for paint and colours. J. B. Orr, Charlton, Kent. Nos. 40,138 and 40,634.
- THYMO-CARBOL, with signature, and THYMO-PHENOI, with signature, for chemical substances use I in manufactures and arts. By Calvert & Co., Bradford, near Manchester. Nos. 40,184 and 40,187.
- Castle Brewery and signature, for acrated waters. Lascelles, Tickner & Co., Castle Brewery, Guildford.
- BOWMAN'S ISLE OF MAN BOUQUET, with label, for a perfume. Edward James Bowman, 53 Victoria Street, Donglas, Isle of Mau.
- SAVARS. By Evans, Sons & Co., of 56 Hanover Street, Liverpool, also trading as Evans, Lescher & Webb, at Bartholomew Close, London. In sixteen classes, comprising all kinds of druggists' sundrics, chemicals, disinfectants, perfumes, and toilet preparations, but not medicines or pharmaceutical preparations. Nos. 40,559 and 40,574.
- THE SULPHUR LAVE, for a medical preparation and for a cosmetic. T. G. Gibbons, 41 Market Street, Manchester. Nos. 40,647 and 40,648.
- LEWIN'S BOUQUET, and a label for a perfume. E. C. Lewin, Market Place, Boston, Liucs. No. 43,766.
- ASTHMAFUME, a preparation for the relief of asthma by W. J. Churchill, trading as "Churchill & Son," 42 New Street, Birmingham. No. 40,785.

From the "Trade Marks Journal," December 24, 1884.

- THE PATENT GIESSEN BLUE, with label for washing blue. A. H. Clarke, trading as "May & Co.," Black Swan Alley, 43A London Wall, E.C. No. 40,192.
- POWELL & RICKETTS, Patent Bottle Manufacturers, Bristol, for glass bottles, P. & R., Phoenix Bottle-works, Bristol. No. 40,323.
- "AUDAX OMNIA PERPETI," as the legend of a coat of arms for toilet articles, not scents. Weintrand, Joyce & Co., 18 Aldermanbury, London. No. 40 348.
- DENTON'S UNALTERABLE THER, also ½-MINUTE THER, for thermometers. S. G. Denton, 25a Hatton Garden, London, E.C. Nos. 40,637 and 40,638.
- "Forms," with design of a mailed hand, for brushes, except artists' brushes. S. D. Page & Sons, Theatre Street, Norwich. No. 40,653.
- Liq. EUONYMIN ET PEPSINE Co., for a medicinal preparation. Oppen heimer Brothers, Sun Street, Finsbury, Loudon. No. 40,639.
- PHGENIX BAKING POWDER, in italic type, for baking powder, by the British Tea and Tradiug Association (Limited), 118 Southwark Street, London. No. 40,769.
- THE "SIMPLEX" SODA-WATER MACHINE, by James McEwen, Blake Street Works, Shelford Road, Manchester. No. 40,823.
- CHARLTON and CHARLTON ENAMEL, with the same design, for paint and colonrs. J. B. Orr, Charlton, Kent. Nos. 40,829 and 40,830.
- VERITABLE LIQUEUR BÉNÉDICTINE, with signature, "A. Legrand aîné," for a liqueur. Distilleric de la liqueur Bénédictine de l'Abbaye de Fécamp, Fécamp, France. No. 40,935.
- The Indian Tea-growers' Company, with signature, "A. M. Stewart, proprietor," for tea, &c. A. M. Stewart, trading as the company, Virginia Buildings, Glasgow. No. 49,915.
- Kor Kür, in rudely drawn capital letters, for a cough cure, containing glycerine, by Edwardus Radley Learoyd, 21 Washington Road, Sheffield. No. 40,927.

- "LICOBICINE (liquorice, chlorodyne, and glycerine compound), for coughs, colds, &c.," as parts of a label, by Edward Mandall, trading as "Mandall & Co.," Stockton-on Tecs. No. 40,963.
- OSSIDINE, for cattle medicines, by Richard Cole, Lawn House, Brightwell, Wallingford, Berks. No. 40,939.
- SURAMBULA, a medicine. Sherrif Saudland, trading as "Sherrif & Co.," 3 Adelaide Place, London Bridge, S.E. No. 41,017.
- QUEBASCHO, and a picture of a landscape for patent medicines. A. J. White (Limited), 17 Farringdon Road, E.C. No. 41,041.
- GIANT, for cement for glass, &c. John Marshall, 68 Crampton Streets Walworth Road, Surrey. No. 41,092.

From "Trade Marks' Journal," December 31, 1884.

- AVENA FOOD, for a farinaceous food. T. W. Spong, Bnrrin Street, Carlow. No. 38,082.
- HUILE SURFINE A L'INORA; also EXTRAIT VÉGÉTAL DE VIOLETTES DES BOIS; also EXTRAIT VÉGÉTALE DE ROSES, each with labels with name "Ed. Pinaud," for scented hair oil, extract of wood violets for the hair, and extract of roses for the hair, by Emile Meyer & Cie, 37 Bonlevard de Strasbourg, Paris. Nos. 39,875, 39,877, and 39 878, the two last used by applicant and predecessor 18 years before 1875.
- GARBETT'S CATTLE-FUME BOX, and a picture; also POT-BOX FOR FUMING, STEAMING, VAPOURING, INHALING, DECOCTING, AND COOKING, for apparatus for curative purposes for men and animals. Richard Gurbett, 4 Forster Street, Walsall, Staffordshire. Nos. 40,206 and 40,207.
- THE NEW "ERA" BEER Al, &c., on a label for an acrated non-intoxicating beverage. S. Clayton & Sons, Ormside Street, Old Kent Road, London, No. 40,425.
- Po-Ho-yo Al Brand Menthol, for External Application, &c., on a label for the drug menthol. J. Geo. Shirley, 30 Paternoster Square, E.C. No. 40,553.
- BARON SAUCE, and a label with signature. Mary Jones, trading as "Gordon & Co.," 14 St. Michael's Road, Stockwell, S.W. No. 40,736.
- OPERA VOICE, and a design and signature for medicated lozenges, jujubes, tinctures, &c. P. A. Leslie & Co., 36 Bride Street, Dublin. No. 40,815.
- Picture of a crown for horse, cattle, pig, and poultry food. Sam. Pearce, 46A Market Street, Manchester. No. 40,849.
- [Picture of a castaway boat for naval contrivances. Ed. Allison, whole-sale druggist, Anlaby Road, Hnll. No. 40,834.]
- R. & J. N. in a monogram, for non-acrated and non-alcoholic beverages.
 R. & J. Nuttall, 23 Sutton Street, Manchester.
- PARRY'S REAL BLUE, for laundry blue. Wm. Henry Soulby, trading as "M.J. Parry & Co," 138 Richmond Row, Liverpool. No. 40,932.
- EUREKA, for salt. Thos. Higgius, Water Street, Liverpool. No. 41.009.
- ELCAYA, a perfume, and KAUZEROON, a preparation for the moustache. John Stuart Collins, the Grand Hotel, Trafalgar Square, London, S.W. Nos. 41,109 and 41,110.

From the "Trade Marks Journal," January 7, 1885.

- Flora, for perfumed soap. Dr. C. R. Alder Wright, 3 Castillain Road, Maida Vale, Middlesex. No. 38,744.
- AN INDIAN CHAMPAGNE, SPARKLING GUAVA, and a label. By Henry Cochrane, trading as "Cantrell & Cochrane," Dublin.
- THAPSIC, medicinal cigarettes, smoking mixture, and fluid extract, not containing tobacco. Henry Whitaker, M.D., Belfast. No. 40,148.
- IMPERIAL PILLS, Beutham's, and picture of a pestle and mortar. Wm. Bentham. High Street, Spennymoor. No. 40,149. Used three years before 1875.
- REES'S FURNITURE GLOSS. Prepared only by E. H. Cooke, successor to J. Rees, 30 Fore Street, Totnes, with a label. No. 40,297.
- THE MANX TRIPOD, with spurs to each foot, for non-aërated and non-aëroholic beverages. Joseph Wynn, 75 Rochdale Road, Manchester, botanic beer-brewer. No. 40,333.
- EHRMANNITE, in script, for a form of phosphoric acid for clarifying cane inice. E. Packard & Co., Ipswich. No. 40,575.
- LEATHERINF, a damp and wear-resisting compound to be applied to leather.

 Leatherine Manufacturing Company, 173A St. Vincent Street, Glasgow. No. 40,789.
- VICTORIA PILLS, for human use. A. McC. B. Harconrt, 45 Thornton Street, Stockwell, Surrey. No. 40,885.
- PREMIER (or PREMIERE) 4, SOLE MAKERS, DAN RYLANDS, BARNSLEY, for glass bottles. Dan Rylands, Barnsley. Nos. 40,897 and 40,898.

YE OLD ENGLYSSCHE, with a picture of Old London (from the Health Exhibition), for perfumery and toilet articles, except lavender water. F. Newbery & Sons, 1 King Edwarl Street, Newgate Street, London. No. 40,907.

FEWSTER'S RUMERTIZ, with portrait and label, for a patent medicine. Wm. L. Fewster, Dewstury. No. 47,726.

PICTURE of a spectacled man seizing Time by the forelock from behind, for patent medicines. Ed. Arthur Woodhouse & Co., Cleesthorpe Road, Grimsby. No. 41,081.

THE WORCESTERSHIRE, for salt. John Corbett, Stoke Works, Bromsgrove. No. 41,112.

Gourou, and a faneiful seene for medicated lozenges. Thomas & Co, 10 Pall Mall, S.W. No. 41,126.

MALMETEINE within plain lines, for a medicine for the prevention of seasiekness. James & Co., 16 Moorfields, Liverpool. No. 41,260.

THE MINCING LANE PORTRAITS

LAST month we noticed the amusing exhibition of original caricatures of men of Mark Lane and Mincing Lane, which was on exhibition during the early part of December. On December 19 the whole collection was sold by auction at the London Commercial Sale Rooms. Admission was by catalogue only, price 2s. 6d. The catalogue gave pen-and-ink sketches of the caricatures, cleverly done, all numbered, but without names. We understand that 700 copies were sold, and certainly no sale has been more crowded for a very long time. Ten minutes before the hour for the sale the way to the room was shown by a long string of gentlemen, with chimney-pot hats, and more or less cheerful demeanour.

A few minutes before the hour the auctioneer, Mr. Herbert Walton, took his seat, puffing a big cigar, and was greeted with cheers and whistling, and shouts of "No. 67 in the catalogue!" which was by no means complimentary. The room was now crowded to suffocation. On the stroke of the hour the auctioneer knocked for order, and explained that the sale was ordered by the artist and for the artist. His commission would go to the benevolent fund of the sale-Fooms. A gentleman asked, "Is the sale entirely without reserve?" "Quite so." "Then every man has his price?" "I am sorry that gentleman is not in the collection," answered the auctioneer. Another got the information that there was to be "Five shillings advance per bid, and the pictures are to be taken with all faults. You ought to be a good judge."

The bidding then commenced. No. 1, "a very sweet lot," was started at a sovereign, and was knocked down at 50s. "Very cheap!" "Is that all he's worth?" No. 2 fetched 55s., the next 35s., No. 5, 55s., and for No. 6 (greeted with roars of laughter) 40s. was bid by Messrs. Lewis & Peat, which brought down the house. A face not unlike the picture is not unknown in the rostrum when some of Messrs. Lewis & Peat's sales are on; but we must follow the auctioneer's lead "under advice," and omit the names. It was bought for 45s. by another. No. 8 was sitting in the flesh at the auctioneer's left, and had his colour permanently heightened for the rest of the afternoon by the flattering reception he received. He fetched 80s., the highest price so far. No. 11 was announced by the crowd as "Old Borax" and "Tincal"; 30s. was all his picture fetched.

No. 13, "Sweet William; or, The Pink of Perfection," was bought by the auctioneer for his own sale-room. No. 15 was announced with shouts, ". am not so bad looking as that!" and fetched 81.5s.; and, at the mention of No. 21, there were anxious inquiries, "Where's the umbrella?" which the auctioneer satisfied by saying, "An umbrella is given away with this lot." There were also shouts of "What is his Christian name?" and roars of laughter. Judging from his physiognomy the gentleman never had one. No. 25, a striking likeness of a member of a well-known firm of drug brokers, 5*l*. No. 39 was announced as the "good young man that died," and fetched 5*l*. 15*s*., as an "export order." No. 48 was started at 3*l*., and sold for 3*l*. 5*s*., the anctioneer remarking that it would have been worth 201 if the nose were rather smaller. No. 50, "One of the Barons," and the only wholesale druggist in the collection, fetched 51, 5s.

No. 51 was started at eighteenpence. "Oh, we shall have to withdraw this," said the auctioneer, but knocked it down at 25s., with the remark, "That's going to the Zoo." No. 54 bid 21. 5s., "going to send it to his wife;" but it went elsewhere for 50s.

No. 55, "The Grand Old Man," was Mr. Peat, of Messrs. Lewis & Peat, and was a really good likeness; it was sold for 5l. 10s. The auctioneer himself, No. 67, was greeted with universal cheering, and cries of "Mixed pickles!" When the uproar subsided he said, "I'll give 5s." There was a brisk competition, but he bought himself in at 5l. 5s., saying, "I think it's devilish dear." No. 69, "bought for Jamrach," went to some one else at 40s.

No. 49, started at 61., was knocked down at 91. 15s., the highest price except the last. No. 102 was put up at about twenty minutes to five. Someone bid at once 101. "Wha-at?" said the auctioneer, puffing his cigar. "Yes," said the bidder, "10l.," looking rather uncomfortable; so it was knocked down to him. This price was the result of a bet of which we have heard two versions. One, that a man bet that his own portrait would fetch the highest price, and another, much inferior in point, that he would buy the picture that went at the highest price.

It was rumoured that the artist was offered 400%, for the whole collection. He must have been disappointed with the results of the sale, which were doubtless ruled by the first few bids. The total amount realised must have been between 280l. and 290l., with about 70l. for catalogues.

THE IODINE TRADE.

IN view of the recent rise in the price of iodine, and the I interest generally evinced in that market, we have endeavoured to learn the prospects of the trade, and one of our staff has been favoured with an interview with a gentleman largely concerned, and in a position to speak with unquestioned authority; indeed, he may be regarded as the best authority on the subject. We are, however, desired to withhold his name. Speaking on the recently-formed combination he are also large. bination, he remarked, "There is nothing at all unusual in it. There has always—well, nearly always—been an understanding amongst the manufacturers, although for about four years matters were hardly as satisfactory as could be desired."

"Was that on account of the Chilian !makers ?" inquired our representative. "Oh, dear no, not by any means. It is quite a mistake to assume that there was any opposition from them, or at any rate any that would be worth speaking about, because when they first came into the market they held quite a different position from what they do now. I need not go into particulars; your readers interested in the trade will know, I daresay, to what I refer, but as soon as they abandoned that position and assumed the one they at present occupy, it ceased to be a question of opposition entirely, and they have worked on most friendly terms with the Scotch makers, and all concerned."

"Then it is not correct that the Chilians stood out for a long time fighting the combination, or the general understanding that then existed, until they found themselves

working at a loss?"

"Certainly not, as far as I know; I never understood it to

"Then they are not to be considered as the cause of the

break-up of that organisation four years ago?"
"No, not at all. The facts are these: From that combi-

nation there was one manufacturer who held aloof. He was not a Scotch maker, as you suggest; but who he was I must not say: it would do no good; but, as I said before, he held aloof from us. Well, we allowed him to sell under certain conditions, and by that I mean he was given to understand that though he would not come into our organisation, yet he would have to abide by its regulations, to the extent of selling at combination-price, for it was not at all likely that we were going to let him do as he pleased on that score.

"Was it in your power to enforce those conditions, and how could you do so without injury to yourselves?"

"Of course it was in our power, and as to letting him know

that it was, we had simply to reduce our price, and then where would he have been? However, that is neither here nor there. One day it came to pass that we had to say to this manufacturer that he must come into the combination. At first he hesitated, and then said he would; but next he thought he would not, and after a little more wavering he finally declined. That was in July, 1880, and to make a long story short, we reduced the price at one sweep from 14d. to 6d. Yet, low as that price was, it came down another twopence, and remained at that for some time, until last November, in fact, when, after some negotiations, we announced that an understanding had been earried out by which the price would be immediately raised to 9d., and it was so raised on November 22 last year.

"Did you experience much difficulty in re-establishing the

combination?

"Ah! there you ask me more than I may tell you. I am very pleased to live you as much information as I can, but I must be careful not to say anything that would offend our friends, who may be as much interested or concerned as I am."

"Then, may we ask, if the suggestion for the reorganisation

of the combination emanated from you?

"There, again, you put an inconvenient question. But I may say no, not from myself, although I need not disguise the fact that I was precious glad to see it. It was a step we were bound to take sooner or later. For several weeks prior to November 22 we had made no sales, because we had no price. We all agreed that 4d. was too low a figure to eontinue at, and with a possible organisation in view we suspended sales for awhile and booked orders for delivery when a price should be fixed."

"Have you any outsiders now-that is, makers who are not

in the combination?

"No, happily not; it is a complete muster this time, and from what I can see I have no reason to doubt but that all of the members are very well satisfied, and find it better than cutting each others' throats by a stupid competition which can only reduce prices to a ruinously low figure. On the other hand, there is a disadvantage, if it can be called so, attached to membership of the combination, and that is that makers, on account of the price, are not able to sell all they can make, whereas before they could. But then they get a better price for what they do make, and ean sell it for more than they otherwise would be able to get, so that after all there is not much of the disadvantage about it."

"Then has the effect of the combination, speaking generally,

been to improve the demand?

Well, as to that, one effect has been to get rid of speculators, if such can be directly traced to our effort, because at no time has there been much speculation in iodine, but since the organisation there has been considerably less, and for which I think I may say we are all well pleased. What we want is a steady market, for ours is not a big thing at best, and what is the use of playing with it when by keeping steadily at an understood figure a better business, and one fairer to all concerned can be done?

"Is it a sound assumption that special terms and advantages were offered to some of the makers to come in, or did

all agree with this policy of non-speculation?

"Yes, no doubt you would like to know that; but then I must not give you an answer: it would be telling too much. I can only repeat what I said just now, that a unanimity exists amongst the members, and that I have every reason to believe that they all agree as to its advantageousness.

"Is the market likely to be busy soon, or is there much

doing just now?"

"Well, just now we are quiet. It is a bad time of the year for us. People are stock-taking and have not had time yet to place their orders, nor are they likely to do, until they have got rid of the stocks they have on hand, and because when iodine was at 4d. they bought largely, and they seemed to get an idea that it was going up, although, as I remarked just now, for several weeks we made no sales either while the negotiations were being carried on or we were anticipating them. But as soon as they get rid of their stocks, then we may fairly look for little better times, and I see no reason why prices should not be better too."
"Then it will be correct to assume that the price is to be

raised immediately?

"No, you must not say that, for that is not correct. I have

no doubt that prices will advance; and, indeed, by the aid of this combination we have a right to expect them to do so. What is 9d.? It is very little more than 100 per cent., you say, upon 4d. Well, but makers could do nothing at all at that figure, and it is not as though the trade was a big one in which the turnover was large. That prices will go up is, I think, a fair inference to be drawn from the present position. but I must be distinctly understood not to state this definitely. I merely give it as an inference which I, as a business man, am entitled to draw for myself, that when the rise does take place there will be, I should say, a freedom from exciting surroundings, for the reason already given-that there is but very little speculation in the thing.

"How soon do you expect that this rise will be likely to

take place?"

"That I can't say: it will have to be a natural process; but for my own part I don't think it will be long first, yet pray don't let this opinion be made anything of: it is merely my own private idea, and may or may not be correct.'

"Now supposing the sphere of iodine was enlarged and a brisk demand arose for it, would it be possible to keep up as good a price, say as 9d., without the combination?

"No, I don't think so, and, as for an enlarged scope for iodine, I am afraid there is no such luck for us. You know several years ago it was used for colours, as it makes some beautiful shades; but then they could not be fixed, and so it was abandoned. Then there have been some experiments in connection with making a very violent fulminating compound, but the difficulty is that it is no good at all when it is wet, and yet as soon as it is dry it all goes off of itself; at least so I understand. I don't profess to speak with authority. the steel people, I believe, began to use it, and some of them continue to use it, for treating the phosphorus in the pigiron, but the cost of it has been against its extensive use in that direction. If it could be used successfully in either of these cases it would be a first-rate thing for us, as the demand would be very great."

"But surely then you could afford to sell it nearer 4d.

than 9d.?

"Well, I don't know about the 4d., but it stands to reason that we should let them have it on better terms than 9d."

"Then would not that have a breaking-up effect upon your

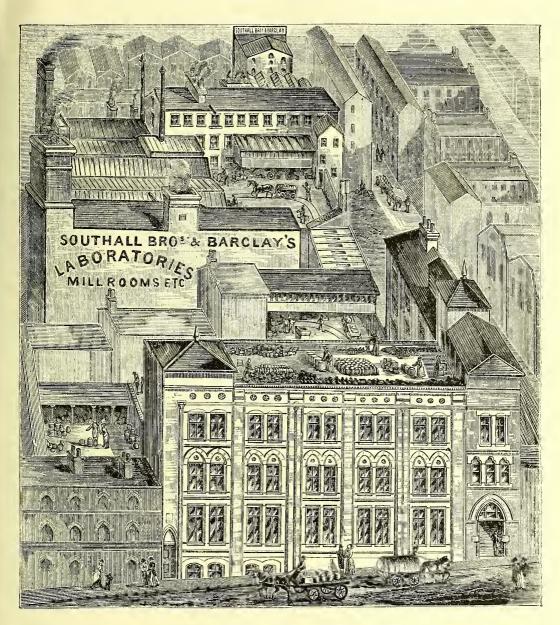
combination?

"No, I don't think so, because for medicinal purposes we should still have to keep the price up, as the sales are so small. It is not like breadstuffs or other things dealt with in such bulk, and there would be a much greater confidence in the market. We have no interest to serve in creating or keeping up an unsteady market. In fact, to prove this, I could, were it not sounding our own praises, quote instances where to the contrary we have frequently acted in cases of exceptional circumstances; because, as I say again, we know the value of a steady market, and we know the disadvantages of an unsteady one, the quicksilver for example, where you never know from day to day how you are going on, or whether, having sent out one price-list in the morning you are not obliged to send out another at night. But let me remark once more, if I have afforded you any ideas on this subject they must be taken, if you please, simply as private opinions, and the near-at-hand future I presume, will prove whether they are well founded or not."

Bromine.—A correspondent of the Monthly Mag. of Pharmacy, writing from Messina, says:-"A bottle of bromine left in a closed room all night with the stopper out destroys all infection and insect life. I have cleared places which were infected with vermin many times. It is far more effectual than the vapour of burning sulphur."

TO REMOVE RUST FROM MARBLE, an operation which depends upon the solubility of iron sulphide in a solution of potassium cyanide, is thus effected: - Clay is made into a thin paste with ammonium sulphide, and the rust spot smeared with the mixture, care being taken that the spot is only just covered. After a lapse of ten minutes this paste is washed off and replaced by one consisting of white bole mixed with a solution of potassium cyanide (1:4), which is in its turn washed off after a lapse of about 2} hours. Should a reddish spot remain after washing off the first paste a second layer may be applied for about five minutes. Pharmaceutische Centralhalle.

MESSRS. SOUTHALL BROTHERS & BARCLAY'S NEW PREMISES.



WE have had frequent occasion to remark on the wonderful development of the wholesale drug trade of this country, and no feature of this development is more remarkable than the obvious signs of prosperity among the many great provincial houses. Judging from new firms and extensions, it would not be at all extravagant to say that, within the past twenty-five years, the wholesale drug trade of London has at least doubled in extent; but, for all that, it has certainly not maintained the same proportion of country and foreign trade which it held a quarter of a century ago. Where the customers all come from is a question on which we shall not venture to speculate. It is a canon of pharmaceutical faith that the retail trade is declining rapidly. Any suggestion to the contrary is received with indignation, while bold and eloquent insistence on its decay, such as Professor

Attfield enunciated a couple of years ago, wins enthusiastic and almost affectionate plaudits.

Leaving this problem for the present, we proceed to illustrate our opening sentences by a short description of the new premises which Messrs. Southall Brothers & Barclay have lately completed, and which possess a particular interest as comprising, apparently, every detail of ingenious contrivance which could be picked up from all quarters of the country, with much besides suggested by the experience of the partners themselves. The result is a singularly complete factory and warehouse combined, wherein the evidences of design must strike everyone at all familiar with the complicated necessities of the business.

"Southall's, of Birmingham," is a name which could not be omitted from any list, however condensed, of the historic houses of pharmacy in this country. It is one of those numerous Quaker firms which have so successfully associated themselves with the drug trade, and have so greatly influenced it. To the former generation, however, "Southall's" was known almost exclusively as a great dispensing firm; in recent times, while maintaining their reputation in that respect, they have almost eclipsed it by their enterprise as manufacturing pharmacists and wholesale druggists.

The premises are situated in the central and busiest part of Birmingham, and the new and handsome Corporation Street running close by, with its many official buildings, has still further increased the value of business property in that locality. A spirited cutting house recognising this fact has built a large establishment in the immediate vicinity.

The shop in Bull Street, which has shared in the general restoration, has a special character. A slight bow of the windows maintains a just sufficient touch of old-fashionedness, while inside nothing but dispensing is visible. There is no "dispensing department," but the whole pharmacy is evidently devoted to that occupation, and it seems as if only a bold iconoclast would venture to ask for a bottle of Jockey Club. At the far end of the shop, however, is an elegantly-fitted waiting-room, furnished with every comfort, and containing many cases distinctly, but not obtrusively, placed, in which dietetic, toilet, nursery, and other articles are classified.

The factories and warehouses behind extend to the Lower Priory, where is the public entrance to the offices, and they have besides a gateway and workpeople's entrance at the side from Dalton Street. The whole site occupies an area of

over 12,000 feet.

The drawing shows the frontage of the chief building from the Lower Priory. This is in the Gothic style of red brick with stone and terra-cotta dressings. The basement and ground-floors, each comprising about 4,000 feet superficial area, are used as warehouses. The entrance leads direct to the first floor, and on the top of the staircase is a waiting-room fitted up as a museum. By the aid of numerous foreign correspondents, and to a large extent assisted by missionaries, the firm have brought together a very interesting collection of pharmaceutical and medical curiosities. There are sets of medicines used by native doctors in various parts of the world, such as those used by Arab doctors, sent from Jerusalem; those of the witch doctors of South Africa, a large number obtained from the Indian doctors of South America, a collection of the tools used in the collection and preparation of opium, and many other interesting specimens. The saleroom for Birmingham, the buyers' room, and the offices are also all on this floor. The offices consist of ledger and invoice departments, both being under the direct supervision of the accountant. A strong room is provided for storing the books. One room on this floor, used by Mr. Barclay, shows much skill in the adaptation of the building. This room is so placed as to command a view of the whole of the clerks' desks, the packing-room, the waiting-room, the buyers' room, the saleroom, and front entrance, and, on the other side, into the yard and side entrance into Dalton Street, so that a perfect supervision of the whole of the administrative departments is obtained.

On the basement of this building oils are stored, and a continuous filtration of castor oil is carried on automatically. The dry room occupies the second floor; opium and special valuables and dangerous poisons are in a strong room on the Mezzanine floor; the wet-room is above, and the third floor

is used for storage.

The whole of this building is covered by an asphalted flat, and is used for various purposes, including the bleaching of castor oil. Parts of this flat are roofed in for the storage of bottles and empty packages, also for the lathe which is used for grinding stoppers for bottles. The loss of stoppers from empties forms a considerable item in a wholesale druggist's business. A competent workman is employed for this purpose.

The washing and drying of bottles and jars is performed in rooms specially designed for the purpose, and placed in

communication with the lift and stores.

Another very useful contrivance is seen in the packing department. The straw for packing is delivered from the outside into a rack arrangement. It is drawn out by the packers from the bottom as required. Thus the floor is kept tidy, the danger of loose straw is avoided, and waste of straw, to at least the extent of one man's wages, is prevented.

A direct-action hydraulic lift and several hand-lifts pass through this building, fire-hose connected with a high-pressure main is in readiness on each floor, and electric bells are fitted into every department. There is a special out-door shed for inflammable goods, such as ether, bisulphide of carbon, &c., in which even at night abundant light can be obtained by reflected light only. Brick arched ceilings are provided in parts where any danger might be apprehended from fire.

At the workpeople's entrance in the yard is a lodge for the time-keeper, and every employé must pass through that office. The yard is laid down with a wooden pavement to prevent noise; and from the warehouse, through the laboratories, and to the end of the premises runs a horse tramway. At the warehouse entrance this tramway runs over the table of a weighing-machine, so that all goods can be checked on

receipt.

The various buildings behind the warehouse are used for special manufactures and for laboratories. One special floor is devoted to analytical work. This department is the "eye" of the establishment. All goods bought or manufactured are brought here to be tested before they are passed into stock, and outside analytical work is also carried on here. head of this important department is Mr. F. Harris Alcock, a Pereira medallist, who also superintends an adjoining room where the manufacture of the finer chemicals is carried on. Close by is an extensive show-room for chemical and electrical apparatus, a branch of trade which is daily becoming of greater extent and importance. The main pharmaceutical laboratory, through which the tramway passes, is under the management of Mr. Featherstone, who has held that position for the past thirteen years. This contains all the necessary apparatus for evaporating, distilling, pressing, &c., on a very large scale. Beyond is a crystallising-room, where iodide of potassium and other chemicals are manufactured, and a furnace-room for fusing, burning charcoal, &c. is made in another room; plaster-spreading by machinery is being carried on, and scaling-rooms are close by. Mr. Alfred Southall, F.C.S., takes the general supervision of the whole of the laboratory department, while Mr. Barclay looks after the working of the business.

Next to the laboratories come the mill-rooms. In these are various pairs of stones for special work. One of the large pairs of granite stones weighs about 5 tons. Besides the stones are stampers for smaller quantities, and several crushing-mills. A set of drying-rooms is connected with the mill

department.

There are several workrooms in which female labour is largely utilised. In one of these girls are employed in garbling drugs, splitting sarsaparilla, packing specimens, and also in putting up the specialties of the firm. A number of girls are at work in other rooms, with several sewing-machines, stitching and packing the "sanitary towels" which have acquired such a widespread sale. Elsewhere in this section the making and coating of pills, the preparation of suppositories, and such-like goods, are in constant operation.

The basement is used for the boilers, steam-engine, and pumps, also for a carpenter's shop, and for a spirit-cellar, which is so arranged that anyone entering it must pass the office of the superintendent of the laboratory, obtaining from him the key, and giving it back on his return. The engine is constructed so that, should an easy method of storing electricity be devised, it can be used for producing the light

for the establishment.

In connection with the laboratory and apparatus-rooms there are two lifts passing through the buildings, besides

cranes outside for heavier goods.

A fire-hydrant is fixed so as to command the whole of the laboratories and work-rooms, and a fire-escape is placed in the upper rooms, to enable the workpeople to descend rapidly in

case of fire.

The machinery employed throughout is of the highest class, and was made and put down from the drawings and specifications of Mr. Henry Lea, consulting engineer, of Birmingham. The boiler is calculated for 30-horse power nominal, and is in two sections, only one of which has been fixed at present. The contractors were Tangyes (Limited), Piggott & Co., John Bennie, Waygood & Co., Mr. Taylor, J. Hands & Sons, Hodkinson & Clarke (Limited). The builders' work was carried out by W. & J. Webb, and the shop-fittings were made by the Midland Joinery Company, of Birmingham. Messrs. Martin & Chamberlain were the architects.

NOTES ON SOME UNCOMMON DRUGS.

By J. OLDHAM BRAITHWAITE.

(Read before the Chemists' Assistants' Association.)

BEFORE introducing these specimens to your notice I must state that they are uncommon in the sense that they are not often met with in retail pharmacies. Some of them appear at fairly regular intervals in the London drug market, and therefore can hardly be called uncommon in the usual acceptance of the term. The first specimen I have to hand round is

RIO IPECACUANHA,

under which name a small consignment of the roots of Ionidium ipecacuanha was lately imported, and bought, not for pharmaceutical use, but as a curiosity. The genus Ionidium is a widely-distributed division of the natural order Violaceæ, indigenous to the tropics and subtropical regions of both hemispheres. In most countries where these plants grow they appear to be held in considerable esteem by the natives, chiefly as expectorants and emetics-in fact, being administered to produce effects similar to the official ipeca-cuanha. In India the root of *Ionidium suffrutieosum* is employed in diseases of the urinary organs, and, in Peru, Ionidium microphyllum is highly prized for the therapeutic activity of its roots and leaves. Martius includes five species of Ionidium in his list of the medical drugs of the Brazils; he says of a plant of this genus, "inter eximia purgantia et emetica laudatur." This Ionidium ipecaeuanha is a native of the eastern coast of Brazil. The appearance of the root is so totally unlike that of the true "ipecac" as to preclude the idea that it is sent as an intentional substitution. According to Fluckiger and Hanbury the Brazilians apply the term "poaya" to all emetic roots, designating this by the name "poaya brancha." "Ipecac" also goes by the name "poaya," and hence the two are confounded. The root has been several times examined by various chemists, including the great Pelletier. Most accounts agree as to its containing emetine in considerable quantity. I believe that one of ovr members, Mr. J. B. Barnes, is now conducting some chemical experiments with this root.

CUSCUS ROOT.

Under this name the roots of Andropogon muricatus, of the natural order Graminaceæ, occasionally appear in the London market. It is one of the many Oriental "bazaar" drugs which at intervals are carried to Europe. The name "cuscus" is a corruption of "khūo," the Hindostani synonym of the root. It is also known in certain dialects as "vetti-ver"; the volatile oil obtained by distillation from it is well known and largely used by perfumers under the name of "oil of vetti-ver." These rootlets are much valued in India for their odour, as well as for their supposed aphrodisaie febrifugal properties. It is chiefly used, however, for weaving into fans and dried leaves on account of its fragrance, and for protecting eloth from the attacks of insects. In the bazaars, the roots of Andropogon citratus are often substituted for the true vetti-ver, but are easily distinguished by having a much less powerful and persistent odour, by the greater regularity of its rootlets, and its whitish colour. In Andropogon muricatus the rootlets are much matted together and interwoven, the colour yellowish brown, and the odour very strong and persistent.

ALOE LEAVES.

A short time since a consignment of these aloe leaves was sent from Natal; they are supposed to be the leaves of *Aloc Spicata*. For what purpose they were sent to this country is not known.

ROUND, OR CLUSTER, CARDAMOMS.

These cardamoms, the fruits of Amonum cardamonum, occasionally find their way to England, and are of interest, since they are probably the cardamom known to the ancients, and so highly prized by the spice-loving Romans. I must ask your permission to read you an abstract on this cardamom from the quaint but scholarly translation from Pliny's "Natural History," by Philemon Holland, published in 1601,

a copy of which is in the library at Bloomsbury Square. "As for the grape amomum, which is now in use and much occupied, some say it growth upon a wild vine in India. . . Plucked it is, together with the root, and gently must be laid and couched in bundles by handfuls, for if great heed bee not taken it will soon burst and breake. The best amomum and most commendable is that which carryeth leaves like to those of the pomegranate, without rivels and wrinkles, and besides of a red colour. The next in goodness is that which is pale, the green or grass-coloured is not so good, but the worst is white, and that colour cometh by age and long keeping. A pound of these grapes entire and whole in a cluster is worth threescore Roman deniers; * but if they be broke or crumbled will cost but eight-and-forty. . . . It is sophisticated with the leaves of the pomegranate and with some other liquid gum, besides that it may be united together and roll round to the form of grapes.

In taste and aroma these cardamoms are to my mind superior to the official elettaria. The flavour is more delicate and very camphoraceous. According to Fluckiger and Hanbury this drug generally reaches us from Siam, but is "not

appreciated in this country."

HAIRY CHINESE CARDAMOMS.

This cardamom is produced by Amonum villosum, and is a rarity in European commerce. In Science Papers Hanbury gives a figure and account of this cardamom, but I can find no mention of its appearance in the London drug sales. It is a native of Cochin-China, whence it exported into China proper, and largely used in medicine. The seeds are more terebinthinous in taste than those of the common cardamom.

INDIAN WILD CARDAMOMS; CEYLON CARDAMOMS.

This is the last specimen of cardamoms that I have to show you, and is the fruit of *Elletaria najus*. This cardamom is of fairly regular appearance in the London market, although its destination is unknown. A masterly paper by Pereira on this cardamom appears in the Journal for 1842, in which which he refutes the opinion then prevalent that this was the source of "grains of Pardise."

While referring to the subject of cardamoms, I may suggest that a careful compilation of the literature of the species and tracing of synonyms might form the subject for a paper which would be extremely interesting and valuable. The literature on cardamoms is almost too plentiful, but is very widely seattered, and, if carefully gathered together and arranged in one paper, would prove most useful for reference.

PARTIALLY EXHAUSTED BARK OF MYROXYLLON PEREIRÆ.

This mass of partially disintegrated bark, saturated with balsam of Peru, was catalogued as "balsam of Peru." In appearance it closely resembles the Storax calamita sometimes met with in "old stock," but the pieces of bark are of larger size. It is probably the residual marc left afterboiling the bark to extract the balsam.

LIQUIDAMBAR STYRACIFLUA.

This specimen of fragrant oleo-resin was handed me for identification, a small quantity having reached this eountry unnamed. It is known as "chewing gum" and "white gum" in the Southern States of America, where the tree is indigenous. It is, as you perceive, a beautifully clear amberyellow semi-fluid mass of delicate fragrance. Chemically it is closely allied to the Oriental storax, which I would suggest it might well replace in pharmacy, being much more elegant and cleanly.

TANNE SEEDS.

A large number of these fruits were lately imported from Japan under this name. I brought them under the notice of Mr. Holmes, who has since identified them as the fruit of the familiar Camellia thea. The word "tanne" in Japanese means "seed," and the hybrid "Tanne seed" is an extremely good example of the readiness of consigners of unknown drugs to coin a name to apply to their goods, however inappropriate or inaccurate it may be. The tendency to give a thing a name, and then assume that one knows all that is

According to Dr. Smith the denarius in the time of Pliny equalled 83d. of our present currency, so that this sum equals 21.3s.9d.

to be known about it, is not, unfortunately, confined to the dealers in foreign merchandise; science knows something of such convenient nomenclature.

When cut transversely these fruits are found to contain an oily albumen divided into three trigonal portions. From this the Japanese extract a fixed oil used for burning and lubricating purposes. The first taste of this albumen is something like that of the "pea-nut," but develops a very persistent bitter after-taste.

ALSTONIA BARK.

Under this name one bale of the bark of Alstonia scholaris, of the natural order Apocynaceæ, was recently imported. The tree which produces this bark is very widely distributed, being a native of India, tropical Africa, Java, and Eastern Australia. In India, under the name of the "Devil tree," it is held in superstitious veneration by the natives, who have a legend that once a year all the other trees of the forest assemble to pay it homage. It has a high reputation among the native doctors as a tonic and alterative, and is largely prescribed in fevers. It is official in the Indian Pharmacopeia. The name "scholaris" is applied to it on account of the use to which its wood is often put; thin sheets of it, sprinkled with sand, being used by Hindu children, as we use slates, to trace letters and work sums.

The chemical constituents of this bark have been most exhaustively worked out, chiefly by the eminent quinologist, Dr. Hesse, who has isolated several alkaloids from it, the chief being Ditaine. This alkaloid has undergone clinical tests in America, and is most highly spoken of, it being stated that, given in the same doses as quinine sulphate, it produces equal and similar therapeutic effects, but that it does not give rise to the unpleasant "secondary symptoms" of headache, dizziness, and deafnoss, which often follow the administration of the cinchona alkaloid in large doses.

LEAVES OF A SPECIES OF AGATHOSMA,

sent over as an unknown "herb." Some of you will perhaps remember that in a former paper I showed a specimen of Agathosma melaleucoides sent as "bucha" leaves. This sample was not so described, but evidently exported from ignorance of its valueless nature. The leaves are much larger than the previously mentioned specimen and are devoid of the pleasant odour which characterised the others. I have not been able to get the species identified from the leaves only.

MARKING NUTS.

These are the fruits of Semecarpus anaeardium, the pericarp of which contains an acrid oil used in the East for making lacquer, and, mixed with ammonia, for producing an indelible black mark on linen. The seeds are free from this acrid principle and are caten under the name of Malacca nuts and are supposed to strengthen the memory. The chief interest, however, attaches to these fruits from the use of this vesicating oil, in India, for criminal purposes almost analogous to "vitriol-throwing," with which we are but too familiar. Native medical works on jurisprudence devote considerable space to these fruits. The juice is used, both, when diluted, to produce the appearance of a bruise in support of false charges of assault, and, undiluted, to produce sores and disfigurement, the unfortunate victim, in the latter case, being first narcotised.

Spurious Cubebs.

Some time since a considerable quantity of these fruits of *Piper erassipes* appeared as cubebs; they closely resemble the genuine article in appearance, but differ in taste, being more bitter. A microscope also reveals the presence of fewer oil-cells in these than in the official drug.

SPURIOUS BEESWAX.

I have here four samples of beeswax; all of them grossly sophisticated, in fact, three are almost free from organic matter. In these the beautiful aroma of beeswax is absent, and a distinct odour of paraffin is noticeable, which becomes more marked on warming. In mere appearance these samples leave nothing to be desired, but on further examination their nature is evident. The other sample contains a little beeswax mixed with it, just enough to give the paraffin aflavour. It is partially acted upon by the sulphuric acid test.

SPURIOUS CINCHONA BARK.

I am sorry that I cannot give the name of this very pink bark, which in colour almost resembles larch bark. It certainly is not a cinchona, although catalogued as such. Not long ago a magnificent sample of quilled cusparia bark was offered as cinchona, this being the third occasion in the past twelve months upon which the conveniently elastic term of "bark" has been stretched to cover a sample not referable to the genus cinchona.

HELLEBORUS VIRIDIS.

I have brought forward this specimen to illustrate the commercial difficulties which sometimes arise from the application of the same names to different drugs in different countries. A bale of *Veratrum viride* was ordered from Germany, and this specimen was sent as such, the error, no doubt arising from the use of the term "green hellebore" on the Continent to signify *Helleborus viridis*, while here and in America *Veratrum viride* goes by that name.

JAPANESE CAMPHOR OIL.

This is the last specimen that I have to hand, and is one of considerable interest, as it promises to prove a useful addition to our materia medica. It is the essential oil obtained as a by-product in the preparation of camphor from Laurus camphora. It consists of a saturated solution of camphor in one or more hydrocarbons of the terpene group. It has enjoyed a high reputation in China and Japan for centuries as a valuable liniment in rheumatism. In this country it has been found to be equally serviceable, and is an excellent remedy for chilblains. The odour is peculiar, resembling a mixture of camphor and sassafras. It is remarkable that the crude camphor from Japan smells much more strongly of this oil than that from Formosa.

In conclusion I have to express my indebtedness to my principal, Mr. Umney, for help in procuring samples, and to Mr. E. M. Holmes in identifying doubtful species.

AN OCTOGENARIAN'S PHARMACO-MEDICAL REMINISCENCES OF SIXTY YEARS AGO.—III.

CHOLERA.

IT would be ridiculous presumption in me to attempt a special essay on the cholera. My modest intention is simply to place before the readers of THE CHEMIST AND DRUGGIST a few facts and data that may prove not altogether uninteresting to them, along with my own experience, however limited, and my personal impressions and the views honestly formed from them.

It was in the earlier days of my studentship that I had my first introduction, in a medico-technical and purely theoretical sense, to the cholera, or "gall sickness," as it was then generally called indifferently in the books, which described the disease briefly, as an abnormally excessive secretion of morbidly-altered acid bile, causing, by its irritating and corroding action upon the bowels, profuse evacuation both ways, accompanied, especially in severe cases, by a variety of distressing symptoms, with a fatal ending occasionally, though not very often.

This cholera—now generally called "indigenous" or "Nostras," or, with us, "English"—with cholerine for its milder variety or initial stage, was then, as it continues to this day, one of the saddest ailments in the sad catalogue of human suffering.

Later on, when attending clinical lectures, I observed this disease in a variety of forms and degrees in the hospitals, and, by special privilege indulgently granted me, in the private practice of some of the leading Berlin physicians, when I found that they generally treated it in its initial stage with laudanum in brandy and essence of peppermint; in more advanced stages with rhubarb and ipecacuanha—upon the homeopathic principle, seemingly—tormentilla, rosemary, peppermint, sage and balm infusion (given lukewarm), camomile tea, sweet spirit of nitre, sulphuric acid and lemon-

juice, spirit of camphor, catechu. They gave their patients plenty to drink, small beer in preference, and cold herbal tea. Water boiled and cooled down after was not much in favour. The Berlin doctors insisted upon free ventilation and access of cold air. I remember, also, that the great Counsellor Heim freely exhibited aromatic herbs and spices, decoction of marshmallows, sweet almond oil, and flour and milk paste to alleviate the distressing violence of the vomiting. The diet in the recovery stages was based chiefly upon natural and rational indications.

This was the treatment and medication generally adopted, to the best of my recollection, and with good average results,

by the leaders of the medical faculty of Berlin.

But in 1830 and 1831 the East of Europe was partially invaded by another kind of cholera, a much older and very considerably worse and more fatal congener of our home article. This was an importation from the East Indies, where it had been raging periodically for thousands of years, more particularly in Lower Bengal, Malwa, and the Coast of Malabar, and where the Portuguese had found it on their first settlement in Goa, at the end of the fifteenth century. This most formidable scourge was familiarly known in India several thousand years before Christ. It is found minutely described in old Sanscrit writings as the Mâha

Mâri, which means Magna Mors in Latin.

It was in the fall of 1817 that the Indian cholera—now generally known in Europe as "Asiatic" or "epidemic" cholera, or "cholera morbus"—made its first appearance in British history. Lord Hastings, one of the most energetic, brilliant, and successful Indian Viceroys in the palmiest days of the glorious old Company, had just succeeded in detaching Scindia from the formidable Maharatta-Pinderees league, in the beginning of November, when the cholera broke out in his camp, committing the most dreadful ravages during a fortnight, killing some ten thousand people, chiefly camp-followers. stayed then by vigorous, sensible measures, particularly by the removal of the troops to higher regions and a purer air. Soon after the cholera spread to Calcutta, and from there, by slow and halting stages, to Russia, Poland, and Hungary, then, quasi per saltum, to that gay capital which is said to be always "on the Sprce," Berlin to wit, where I made its acquaintance, however undesirably, yet of my own free will, having, in fact, hurried up on purpose from Paris, where I was studying at the time.

The Asiatic scourge came with fearful credentials to Berlin. It had wrought sad havoc in Moscow and St. Petersburg. The Poles were just in the fiercest midst of their heroic, but, alas! vain struggle against the Muscovite boaconstrictor that held them in its formidable folds, aided and abetted in every feasible way by its Austrian and Prussian co-partners in the monstrous partition crime; whilst England, then in the throes of her great political revolution, gave no sign or hope of help, and the French July Government, swayed by base self-interest and ignoble fears, stood by inactive, awaiting with almost feverish impatience the, alas! inevitable moment when the Chambers might be pompously told by a Sebastiani, "l'ordre règne à Varsovie! Russian army, which came under Diebitch to crush the Polish insurrection, brought the cholera in its train, and communicated it to the unhapply Poles. It raged fearfully in both armies. It struck down Diebitch and the Grand Duke Constantine, and thousands of Poles as well as of Russians.

In Hungary, also, it secured large innings, seizing close upon 260,000 people from May to September, 1831, of whom

about two-fifths died.

The medical profession in the invaded Prussian capital comprised at that time among its leading members such men as Heim, Hufeland, Rust, Dieffenbach, Gräfe, Wolff, Wiebecke, Niemeyer, and scores of princes of science of the same high stamp and standing. They might all of them justly boast of their general success in the treatment of indigenous cholera.

However, here they found themselves suddenly confronted by a disease of a totally distinct nature, which, whilst exhibiting the worst symptoms of cholera known up to this time in Europe in a fearfully aggravated form and degree, was specifically marked by a crowd of new and peculiar complications that could not but confuse and baffle the most anxiously and carefully observant, the most clear-sighted and discriminating, the most experienced and skilful physician. *Collarse* is one of the chief appellations by which

the cholera is distinguished in the East Indics.* And a "collapse" this new and strange pestilence might truly be called—a sudden thorough breakdown and total prostration of all the forces and sources of life. The old derivation of the word (from $\chi o \lambda \dot{\eta}$) could now no longer stand, as it altogether failed to express the nature of the disease, so a new derivation had to be sought. It was found in the Hebrew words "Chole ra"—the evil sickness, showing that the ancient people must have had at one time or other bitter experience of this "Evil Sickness."

Most of the leaders of the profession in Berlin in 1831 were men who had grown grey and white in the study of every kind and class of disease, and in the conception and elaboration of rational methods of curative treatment. But this new and mysterious sickness, which was being so unexpectedly sprung upon them, if the expression may be permitted to pass muster here, found them wholly unprepared and almost helpless, though not hopeless, in its gaunt and grim presence. They strove their hardest to grasp its true nature, to bring to light its generating causes, and to discover by the minutest observation and comparison of its symptoms some promising guidance to its proper treatment and possible cure. And certainly their noble efforts were not altogether unsuccessful. Though they failed to lay bare its etiology, they at least succeeded in fixing upon the most active and mischievous of its remediable predisposing causes, and met these with the most efficacious sanitary measures, such as the removal and destruction by quicklime of all animal offal and decaying vegetable matter, and the general use, in public places and private houses alike, of chloride of lime affused with dilute sulphuric acid, the freest ventilation of the sickroom, and the instant removal from it of all evacuations. Brimstone powder set alight on shallow iron plates was also recommended as a disinfectant, and occasionally used. The sulphurous fumes were by some thought worse than the risk of cholera.

The originating cause of Asiatic cholera these great men failed to discover, though most of them felt inclined to attribute the disease to parasitical or fungoid action upon the living organisms. My own ever-revered master, Raspail, one of the most eminent of natural philosophers of all times, who had the opportunity afforded him the year after of observing the cholera in Paris, unhesitatingly started and maintained the animalcula or microscopic theory of its origin. That wondrous man who, among other things, first compelled the French faculty to admit the acarus seabiei as the generating cause of the itch-upheld through life as an axiom that "the infinitely small" are the direst and most destructive foes to animal and human health and life. He believed, as did, indeed, many other eminent scientists all over Europe, that the cholera fungus or animalcule was wafted through the air, and made its way into the body by the lungs in the first instance, whence the blood carried it to the digestive organs to work its more or less fatal effects there. We are more than half a century older now, and the cholcra has paid us a respectable number of visits, or rather visitations, since the time of its first appearance in Europe. Yet our knowledge of the generating cause of the disease remains still in the stage of supposition, the same as it was in 1831. True, we have had of late rather positive assurances of the fortunate discovery at last of the teterrima causa malorum.

The comma bacillus, that most nefarious of all commas ever heard of, stands charged at this very present time at the bar of an exasperated world with being perversely and malignantly intent upon putting a stop to so many thousands upon thousands existences, each of them a billion times more precious than its own infinitesimal wriggle.

But this bacillus theory, started by Dr. Koch, and the facts and data upon which it is based, are still so hotly disputed by eminent naturalists and physicians that it would not be prudent as yet to admit Dr. Koch's asseverated facts and

^{*} In Maharattan, for instance, the cholera is called Mordeschin and Mödaschi, meaning simply collapse. The Freuch, with their customary charming conceit, that would connect with a French origin everything since the creation of the world, and, for the matter of that, before it, have turned Mordeschin coolly into Mort de chien—dog's death! expressing at the same time their admiration at the striking applicability of the term.

[†] In this special respect we are better off now than were those who had to encounter the Asiatic scourge in 1831. We have Condy and carbolic acid, and other disinfecting agents.

inferences, and to give the bacillus a solid status in science. And so we find ourselves in this respect still very nearly where we were half a century ago, with this marked difference, though, that the spore or germ theory of the origin of the disease, which in 1831 was half-doubtingly entertained by a few select leaders of the profession, is now well-nigh universally admitted.

The predisposing and determining causes of cholera were from the first most carefully investigated in Berlin, and the experience gained in this respect in 1817 in India, and in Moscow, St. Petersburg, &c., was turned to the best account in tracing and fixing them, and elucidating their influence upon the course of the disease itself. Penury, want, and misery, badness and insufficiency of food, impure water, total neglect of sanitation, low-lying fetid slums for dwellings, filth and squalor hard drinking, more especially of the vile abominations of the Potato Still were, of course, found to rank among the most hurtful of these pernicious causes and influences.

In 1817 the grain crop in India had been scanty and of very inferior quality, and Lord Hastings' army, then engaged against the Pindarees, were located in low and unhealthy cantonments, and, so far, at least, as concerned the campfollowers, badly fed. The cholera, which came down suddenly upon this unlucky force, raged for a time with fearful violence, carrying off some 10,000 soldiers and camp-followers in the space of one week. At length it was deemed advisable to remove the troops to higher and more airy positions, when the malady ceased. This looked a most precious experience, and most instructive, no doubt. Yet, strange to say, the scourge in 1831, in Berlin, as in its numerous visitations after in Paris, London, Liverpool, Dublin, Glasgow, and other places, followed, in this respect also, a most creatic and capricious course.

A few instances by way of illustration:-In the cholera visitation in Paris in 1832, some of the most salubrious quarters, gifted with the purest air, were dreadfully smitten, losing some 26, 3, 4, and even 5 per cent. of the population; whilst the wretched plague-slums of Montfaucon and other unsavoury places dropped only 1 per cent. The same was found to be the case in Glasgow in the several visits the dread disease paid to that city of wonderous growth. In 1848, for instance, the filthiest and worst-aired districts, reeking with the very lowest and poorest population, enjoyed what almost amounted to immunity, whilst the richest and best-aired quarters were also the most plague-stricken. In London something similar was observed in the several cholera visitations. In 1854, for instance, it was found that out of 2,600 people engaged in the apparently most unwholesome occupation of drain and sewer cleaning, not even one was troubled with the Asiatic scourge,* which was scoring at the very time large innings in some of the most salubrious parts of the metropolis. And the same rule would appear to apply more or less to Toulon and Marseilles; also Naples—that fairest and foulest city, as it has been called lately, not with full justice, perhaps. One of the most curious and instructive instances, however, came within my own personal ken and observation. It was in 1874. I happened to be over on the Continent, and I availed myself of the opportunity to take a run to Munich, where the Asiatic cholera was then raging rather fiercely-much more so, indeed, than it had done on two former occasions, in 1836 and 1854. There the military authorities had actually done all that human ingenuity, with the fullest and freest command of means, could devise and effect to check and conquer the Asiatic scourge by the most vigorous sanitary measures. The barracks were models of cleanliness in every way. But, alas! the cholera took no heed of this most perfect sanitation, and carried off rather more in proportion of the protected soldiers than of the civilians left to the unrestrained action of the evil influences all around them. As to the medication, alas! I found it pretty much the same in nature and results as in 1831. In Berlin, also, the cholera visitation of 1831 followed this erratic course.

Berlin was never famed for superior salubrity—rather very much the reverse. Pitched, as it were, headlong into the midst of a sandy desert, and with a mere shallow streamlet sluggishly crawling through it, with the aid of sluices, it must be conceded that the actual capital of Germany is not exactly placed in the most favourable condition for successful sanitary efforts; and it has, indeed, taken immense and persistent labour to achieve at last a satisfactory beginning in the creation of a better state of things in this respect.

On one of my last visits to Berlin, in 1874, for instance, I found the all-important water-supply to private houses question in the same objectionable state in which I had seen it in 1866—many quarters retaining, even so late as that, the primitive portable closet, and fierce disputes continuing to rage anent various opposing sewerage schemers. Yet Berlin is actually going on for one million and a quarter of inhabitants!

In 1831, however, it had not yet reached to the third hundred thousand, and sanitation might certainly be held in its infancy there.

Now, these conditions given, it may not, perhaps, seem altogether unaccountable that the cholera should have distributed its favours impartially alike over the wealthier and the poorer quarters. It unquestionably did so, not even hitting the latter the harder—either in the number of seizures, or in that of fatal terminations.

I am perfectly aware, of course, that statistics might possibly be induced to question the correctness of this statement. But then it has been contended not unfrequently that statistics are not always a safe guide. To me it appears that they are least so in cholera, for various obvious reasons. For instance, it is easy to conceive how it may be deemed advisable sometimes not to let a panic-stricken population know in glaringly-appalling figures the full extent of the pestilence hovering around them. In Paris, e.g., some 28,000 were slain in the cholera visitation of 1832, whereas the statistical return gave only 18,000. The surplus numbers over the statistically-recorded figures were, of course, attributed in such cases to typhoid, or some other broadshouldered disease able to bear the imputation. The very natural bias of practitioners to place in the cholera-column many successfully-treated cases of simple diarrhœa or mild cholerine tends, of course, though in an opposite way, in the same direction. Where people happen to recover from the plainest cholera seizures without medical treatment—and I, for one, may, from my personal experience in many cholera visitations in many places, claim reason to believe that such cases are not exactly the exception—the profession will mostly be reluctant to admit the peculiar specific nature of the disease. Over and over again have I seen "statistically-supported" statements to the effect that medical treatment had succeeded in saving above 80 pcr cent. of cholera patients who had called in the doctor's aid in the earlier stages of the disease, whereas considerably more than 80 per cent. perished of those choleraics that were left to nature alone.* I do not wish to dispute the truth of these statements; only I am sorry to say that my personal experience has rather frequently pointed the other way; at least, I have a somewhat distinct recollection that I found it so in 1831 at Berlin, although I can honstly bear testimony, on the other side, to numerous cases of brilliantly-successful treatment by the great men under whose banner I was privileged to march, and who, though compelled by the force of circumstances to be empirical in some degree, never lost sight of the rational foundation on which to base their tentative treatment, and did not disdain to trust not a little in the vis medicatrix natu æ. In some other quarters, however, the wildest empiricism strode rampant among and over the corpora vilia of the unhappy eholera-struck.

Heim and Hufeland, and other great men at the head of the Berlin faculty in 1831, held inspissation of the blood, resulting from excessive excretion of serum through the mucous membrane of the intestines, the proximate leading fons et origo malorum, leaving the ultimate cause of this matter of debate.

Upon this theory, now largely adopted by the profession, the thickened blood is unable to reach the capillaries. Hence

^{*} In Paris, in 1832, the knackers and others whose occupation it was to ent up putrifying carcases enjoyed the same immunity. Not one of them was stricken with the cholera plague.

^{*} Dr. Romanelli, a famons Naples physician, has quite recently placed the results of his experience on record, to the following effect:—Where medical aid is called in at once, the malady stops short at the premonitorier, or runs a mild conrse. Of those who delay having as-istance till vomiting sets in and diarrhea 20 per cent. die. When the doctor is called in only in the period of collapse 80 per cent. go, and in the period of asphyxia 95 per cent. die." I must confess that it would take a large dose of salt to make these statistics go down with me.

coldness of skin, feeble pulse, &e., and ultimate collapse and asphyxia. Drink was accordingly freely administered—cold herbal tea (peppermint, sage, rosemary, tormentila, balm, &c.); generous Burgundy wine, Madeira, port, sherry, more or loss diluted. Inadvanced stages even rum, coguac, whisky, or arrac,* with oold water. Hot drinks of all kinds were mostly eschewed. Ice-water was given in small quantities at short intervals, and lumps of ice when the pulse was growing feeble and the patient was visibly declining; iced champagne was resorted to in cases of imminent syncope, alternating with cups of hot coffee, the only radical departure I remember from the rule against hot drinks.

In the initial stages tincture of opium in brandy and essence of peppermint gave generally satisfactory results. Camphor was found to do excellent service in all stages, even up to collapse; musk was occasionally resorted to in extremis. I will not take upon myself to say that it did much good. Cajeput oil (from Melaleuca cajeputi, the white tree of the Moluccas) was a great favourite with Wolff and Niemeyer, if I remember right, they gave it in doses from 5 to as many as 20 drops on sugar or in ethereal tincture of valerian, and it was held to be one of the few efficacious remedies. It is a question whether evealyptus oil might not be employed to the same purpose. Opium was not unfrequently given along with camphor. Turpentine was occasionally substituted for the latter, or given with it. Narcotics and acrid narcotics had their warm partisans. antimony, nux vomica, sulphate of copper, and other "gentle" agents were exhibited by some, perhaps, rather too freely. To tell the honest truth, the medication was altogether more than slightly chaotic. Lime-water compresses on the abdomen and frictions with mustard spirit and sinapisms were found to afford relief in some cases.

I have had several occasions since 1831 to pass through cholera visitations in various places, and I am sorry to say I have found a distressing family likeness, in nearly every feature, to my Berlin experience. In 1871, when at Elberfeld, I chanced upon an old friend, who had just had a very fair opportunity of studying the cholera at Königsberg, in Prussia. He told me pretty nearly the same as the result of his own experience. He professed, however, that he had seen the subjoined recipe administered with great success, in

many severe cases even :-

 Tinct. sem. strychn.
 30

 Tinct. valer.æther.
 150

 Tinct. carminat.
 180

 Ol. menth. piperit.
 5

To be taken in doses of 15 to 30 drops on sugar. I give this pro tanto.

Fear is one of the most dangerously depressing emotions in cholera times. The heads of the faculty in Berlin essayed to counteract its pernicious action by encouraging a belief in the preventive properties of aromatic vinegar, camphor, cholera drops, chloride of lime, and brimstone fumigation. Faith in a thing is a great point, and goes a long way to prove its own efficacy by the result. I knew a young physician at Berlin, a Doctor Lefebure, of French descent, who fearlessly visited cholera patients from morn to night, after washing his hands in aromatic vinegar and putting a plug imbibed with the same liquor up his nostrils and into his ears. One night he was roused suddenly from sleep to attend a patient who had just been taken with symptoms of cholera. In his haste he forgot his usual precaution. When he diseovered the omission he turned pale and trembled all over. He returned home, took to his bed, and died of cholera the night of the same day. I will now wind up this somewhat lengthy and, perhaps, a trifle too discursive paper, with a few general hints, the results of patient observation and careful consideration. Although this strange epidemic has so often been observed hitherto to capriciously set at defiance all sanitation, still I would say that the best and most efficient way to encounter it lies, after all, in the prompt adoption of proper general sanitary measures—the disinfection of elosets,

cesspools, and sewers, and the removal and destruction by fire or quicklime of all decaying animal and vegetable matter; the amplest supply of good potable—not boiled—water with lemon or lime juice, or vinegar, or a few drops of sulphuric acid, or the smallest nip of good sound whisky added-which will "disinfeet" even impure water. A moderate use of beer, wine, and spirits may be safely recommended to those long accustomed to alcoholie stimulants. "Do not swop horses when crossing a stream," wise, practical Abe Lincoln used to say. When the cholera is about do not, after long years of good health perhaps, try a sudden and unprepared change in your customary mode of living. Hard drinking, on the other hand, ought to be shunned, even by habitual hard-drinkers. Nothing is more apt to open the door wide to an invasion of cholera than the abuse of alcoholic liquors, to which class belong also those that present themselves under the seductive but deceptive guise of aromatic and other bitters, and stomachic liqueurs and cordials. Sound, substantial, wellcooked food, with a moderate allowance of vegetables, fortifies a man most against cholera attacks. Let no one who has lived for years in perfect health upon a certain diet allow himself to be prevailed upon to depart from that diet under the spurious pretence that persistence in it may bring on the cholera. Ripe fruit, eaten in moderation, is perfectly harmless. Onions, eschelots, and garlic will be found wholesome in cholera times; so will good salads, with a sufficiency of salt, and plenty of oil to a reasonably small proportion of A bit of camphor, about the size of a pea, taken morning and night, may be recommended as a valuable preventive and preservative. Cholera drops—20 drops of laudanum, 10 drops of camphorated spirits of winc, 3 drops of peppermit oil, with brandy or whisky sufficient to fill up an ounce-bottle—have often been found most useful, in doses of 10 drops on sugar every two hours.

FEEDING BOTTLES.

FEEDING bottles are now so largely used that they have become an important item in the druggist's sundry stock. It is many years since they were first introduced, and we might reasonably have expected that the science of them ought by this time to be well understood, but it unfortunately happens that makers cling to the old notions with an astonising amount of persistency. It is this failure on their part to lead public opinion, coupled with the inherent importance of the subject, that induces us to draw attention to it, and to point out what, in our judgment, is requisite if feeding bottles are to be brought any nearer perfection than they are at present.

The subject is one on which any amount of theory could be built, but unless a druggist has seen feeding bottles used, he is scarcely in a position to offer an intelligent opinion regarding them, no matter how many he may have sold. During the past six months the writer has tried "all sorts and conditions" of bottles and fittings, and as practice is better than theory, he thinks he is fairly entitled to be allowed to express his judgment on their relative merits and demerits.

The Bottle.—The first point that falls to be considered is, very naturally, the bottle itself. This is usually made of glass, though we have seen them of earthenware. Glass is undoubtedly to be preferred, owing to its transparency; with earthenware it is difficult to be certain that the bottle has been thoroughly eleaned. The latter may be less liable to breakage, but our experience is that the accidents which befall glass feeders are usually such as would be fatal to the others also.

The shape of the bottle is an important point. What we now eall the old style of bottle is of a boat shape, with a narrow mouth at one end for the teat. This bottle has the advantage of doing away with tubing, and it thus prevents the possibility of much sourness, but it has the twofold objection of being difficult to clean, and of requiring constant attention whilst being used. It is now seldom employed, though some medical men still insist on its use in preference to any of the other forms.

The next shape is the common upright bottle. This was a distinct advance on the older form, but it, too, has had to give way, to a great extent, to the bent bottle, which is known

^a It appears that alcoholic liquors, even spirit of wine, formed also the basis of Dr. Quin's treatment in the cholera epidemic in London in 1831. Lord Malmesbury says in his Memoirs that this medication saved him when attacked by cholera. If the proof of the pudding is in the eating, I can, from my personal recollection, bear testimony to its beneficent effects in 1831 in Berlin. I remember also that the case was very different where total abstinence was insisted upon.

to most of our readers under the names of the "Alexandra," the "Princess," and so on. This shape is undoubtedly the best, and the use of it is, we believe, destined to become well-nigh universal. It has all the advantages and none of the disadvantages of an upright bottle. It may be set upright, or it may be laid flat, and as it is frequently an object of importance to get the bottle laid on its side, the bend comes to be very useful indeed. A shape of bottle regarding which we have never heard a good opinion expressed is Maw's "Fountain" bottle. The idea of this bottle is so excellent that it is surprising that the makers have not long ere this utilised it in connection with the "Alexandra."

The Stopper.—The object of the stopper is twofold. It serves in a measure the ordinary uses of a stopper, though in the nature of the case it must not be air-tight; its other, and more important, function being to act as the medium through which the tube is conveyed, and also to keep the tube in position. The stopper may be one of many forms. It may be earthenware with a strip of cork inside, or boxwood lined with cork, or common cork with box top; it may be a block tin plug, or a tin screw, or a screw of boxwood, glass or earthenware, or it may eonsist simply of an indiarubber cap. "Dr. Monro's Perfect feeding bottle" belongs to the latter class, the tube and stopper, or cover, consisting of one piece of rubber. This has the advantage of being readily cleaned, but the serious drawback of being, after a little use, quite too large for the bottle, and further, when any part of the fittings gives way, the whole must be renewed.

The stoppers which consist of earthenware or boxwood, lined with cork, are very unsatisfactory. The milk is apt to get a lodgment inside the cork, where it sours, and this is of eourse objectionable. The vigorous brushing required to clean this composite stopper soon loosens the strip of cork, and when once it is broken the whole is practically useless. It is true that strips of cork are sold separately, but these cannot be fastened without glue, and as few houses are likely to have a glue-pot at hand, it saves time and trouble to invest in a new stopper, which has frequently to be done. A much more satisfactory stopper of this class is the eommon boxwood-top cork, which is put on many of the cheaper bottles. This is much less liable to get out of order, and may be readily cleaned. Another form of stopper is the plug of block tin, as adopted in Maw's cheaper "Fountain" bottle, but as this fits into a cork-lined neck, it has the disadvantages already mentioned, together with this fault, that as soon as the cork swells up the plug becomes much too tight, the inevitable result being that the cork is pushed tight down into the bottle. All these plug stoppers have one common drawback, viz., that they are not secure. In the hands of a vigorous child of eight or nine months no stopper of this kind has a chance of keeping in its place, and this of itself is a serious

This difficulty (of insecurity) is, however, at once obviated by the screw stopper, which may be of boxwood, tin, glass, or earthenware. Box screw stoppers are apt to swell and crack, and though they may not actually give way, the cracks are certain to be a convenient receptacle for dust and sour milk. Tin screws are sufficiently permanent, but they soon get tarnished, and, in spite of every precaution, tin salts are almost certain to be formed—the utility of which is, to say the least, somewhat questionable.

The best of all stoppers is, without doubt, the glass screw. This possesses all the advantages and none of the faults of those already mentioned. It is easily kept clean, cannot get out of order, is readily detached, and when screwed up no ordinary child is able to take it off. These stoppers are sent into the market with an indiarubber ring to keep them tight, but this is worse than useless. If screwed up so as to be secure, the stopper becomes air-tight, and if notair tight then it is insecure. The only drawback to the glass screw is that in the hands of a careless nurse it is more liable to get broken than the others, but with ordinary caution there is no reason why the stopper should not outlive a few bottles. The earthenware serew is also an excellent stopper, and, if anything, is more durable than those made of glass.

The Teat.—The teat is one of the most important parts of the feeding bottle. Teats may be differentiated into two distinct elasses, viz., the round-hole teat and the leech-bite teat. Round-hole teats have one hole only, and leech-bite teats may have one hole or five holes. No one who has ever seen these

teats used can be in the slightest doubt regarding their respective values, but so strong is the hold of custom and prejudice on the public mind—a prejudice which is, as we have remarked, fostered by the makers—that the better teat is held in very slight esteem. The round-hole teat is utterly objectionable, yet it is still found on all classes of feeding-bottles, unless specially ordered otherwise, and the eonsequence is that mothers and nurses think that nothing else can be right. If they are offered a leech-bite teat, they don't want a teat without a hole; if they are shown the hole, it is a round-hole they want; if you wrap up the teat without giving them any choice, the chances are that it will be returned as having no hole, or having too many holes, or being all cut, and so on. The fault of the round-hole teat is simply in this, that it affords no safeguard against the ingress of air on the one hand, and the egress of milk on the other. For example, if a child stops sucking the teat for a minute, or even a few seconds, all the milk in the tube at once runs back into the bottle; or if the teat happens to fall out of baby's mouth, the nurse is probably made aware of the fact only by finding a copious stream of milk running down her dress, which is thus irreparably ruined, so far as Sunday wear is concerned. The moment the teat falls to a lower level than the bottle, the tube, acting the part of a syphon, begins to carry off the milk. This condition of things is most annoying, and the utmost vigilance is requisite to prevent its occurrence.

The use of a leach-bite teat effectually overcomes these difficulties. In addition to preventing the access of the air, and keeping the milk in, these teats are to a further degree valuable, especially to young and weakly children, as they act after the nature of a valve, and thus make it much easier for the milk to be drawn up the tube. Once up, it remains there, with no risk of its running back into the bottle or out of the teat, even should the child stop sucking or allow the teat to drop. Of the two sub-classes of leech-bite teat, that with the five holes is much superior to the other. Could we be certain of always getting perfect one-hole teats-that is, with the "bite" always exactly in the centre-they would be preferable, but experience has taught us that we need not expect to get, on an average, more than 25 per cent. accurately eentred. The consequence is that the teat may require to be pressed for some time, and from different directions, before the angular hole opens up. This is peculiarly annoying to a fretful child. We have seen a youngster get into a perfect paroxysm through the disappointment of not getting any milk in response to repeated efforts, all of which would have been avoided had the lecch-bite been in the centre of the teat. Now this can never happen with a five leech-bite teat, as at least two of the "bites" will always open up, no matter from what direction the pressure is used.

It is a common objection that five holes are far too many, and that the child runs the risk of being choked. It is true that, if all the five were open at the same time, the flow of milk would be excessive, but this cannot occur. At the very most, no more than three holes can be open, while frequently only two will be in use, so that the difference between a five leech-bite and a round-hole teat is very slight, so far as that is concerned. The teat, therefore, which stands pre-eminent is undoubtedly that with the five leech-bites, and were makers to substitute it for the other on their bottles, they would confer on the public a boon that would be inestimable. Independently of the makers, were the virtues of this teat better understood by the seller, buyers would soon be cducated into the belief in its superiority.

Teats vary in shape, according as they are used for the old-shaped bottle or that now in common use. They may be made in white, black, or brown, the difference indicating nothing more than particular qualities of rubber. Some prefer white, and others black, teats, but this is entirely a question of individual taste. Teats are of various sizes—small, medium, and large. Some children are said to prefer one size, others another, but this is the result of habit. There are nurses so careless and parsimonious that they imagine that one teat is sufficient to last for months. The consequence is, that before the first teat is discarded, it has become so large that nothing but the largest size will satisfy the child thereafter. We have found that two teats, used alternately, last a month, without any perceptible increase in size, but after that time they begin to swell. Were nurses to spend, on an average, a penny a week on teats, the smallest size would always be

suitable, and, further, there would be no grumbling on baby's part when the old teat is discarded for a new one.

Shields.—It is essential that a shield, which is usually made of bone, be placed on the teat. Teats may be had combined with shields, the whole being made of rubber, but this is much too soft for the purpose.

Unions.—This is the fitting that makes the connection between the tube and the teat. Unions are of various shapes, and may be made of earthenware, wood, bone, or glass. The more common form is the well-known earthenware union, but it has the disadvantage of being easily detached from the tube, unless the latter is carefully tied on. A better form is that now largely used on Maw's bottles, but it also has a drawback, viz., that a special teat is required to fit it. The common teat may be forced on by a practised hand, but, as a rule, it is rather too much to expect nurses to be able to do this. If a union such as this of Maw's, but which would fit the common teat, could be had, it would be a most welcome addition to the repertoire of the feeding-bottle manufacturer. A new glass valve union has recently been brought out by Maw, to which we shall refer when we consider valves.

The Tubes. - The outer tube - which is, of course, always of indiarubber-may be extended through the stopper to the bottom of the bottle, or simply to the inside of the stopper, where it is joined by the inner tube, which is made of glass. As in teats, the rubber tube may be white, black, or brown. A feeling exists among a certain class that black tubes are much preferable to white, independently altogether of the question of durability. This feeling we had set down more as of the nature of prejudice than aught else, till experience taught us that probably there was some substratum of reason underlying it. We found, when using a particular make of white tubing, that a strong and unmistakable odour of sulphuretted hydrogen was continually given off. The use of the tube was persisted in for some time, in the hope that this was simply the new smell, and that it would soon wear off, but eventually it had to be given up altogether. We have never heard any complaint of this from anyone, but it is quite possible that many others may have noticed it, and that this is the reason why the black tube is the more popular. It is difficult to understand why white tubes should differ from black in this respect; both contain sulphur, and the only ingredient in the former which does not occur in the latter is silicate of magnesia, a substance which is sufficiently inert. The black tube contains the larger proportion of pure gum, and the sulphur in it may be less readily acted on : but, in any case, it is curious to find sulphuretted hydrogen given off under these conditions.

Valves.—These are now an important part of the fittings of the best bottles. The idea is the same in all, viz. to prevent the milk from flowing back into the bottle, but the methods by which it is worked out vary considerably. There are indiarubber valves, block-tin valves, and glass valves, and probably others that we have not met with. If the use of leech-bite teats were universal, valves could almost be dispensed with, as the teat is a very satisfactory valve arrangement in itself. There are, however, indiarubber valves proper, which are fitted to the bottom of the glass tube; all such that we have seen are useless. Metallic valves are found on Maw's "Fountain" bottles, that in the best bottle being placed inside the stopper, while in the cheaper bottle the valve is joined to the end of the tube at the bottom of the bottle. Glass valves are found in the patent unions already referred to, an l also in glass valve tubes. As to the arrangement in the "Fountain" feeders, that in the stopper is much too complicated. The trouble of cleaning is so great that, even at a low price, this bottle never would be popular. The valve in the cheaper bottle is much more serviceable, the only objection to it being the liability to contaminate the milk with metallic salts. The glass valve union is very neat, but one draw-back is that, as the union is mostly kept in a horizontal position, the valve does not work, and consequently it is, for the most part, of no service whatever. The valve tube does not possess this fault, but, in common with the union, it is difficult to clean thoroughly, unless with hot water and alkali, and they are then very liable to break. We shave found good results by altering a glass valve union so that it can be used as a simple valve at the end of the rubber tube, but the breakage is annoying. The best arrangement of all would be a small hard-wood valve that could be screwed apart, so as to allow the ball and socket to be thoroughly cleaned. The trouble involved would be comparatively slight, while there would be no risk of any kind. Earthenware would be still better than wood, were it possible to get good fitting screws, but this is somewhat doubtful. Faiting this, probably the best and safest substitute is the glass valve tube.

According to our notions, therefore, a perfect feeding-bottle ought to be of the "Alexandra" shape, with a glass screw stopper, fitted with good tubing and leech-bite teats, and a union that would keep the connection firm without having recourse to tving. It should also have a valve at the bottom end of the tube, glass tubing being thus, of course, entirely dispensed with, or a glass valve tube. If such a bottle could be produced so as to sell at a shilling, it would soon drive everything else out of the market.

COCAINE, COMMERCIALLY.

COCAINE can hardly be said yet to have become a commercial article. The modified mercial article. The medical profession are taking a keen interest in it, but the price at present almost prohibits experiments, and naturally prevents it being taken into stock. The following remarks, collected from a couple of interviews, may be found of interest:-

Messrs. Allen & Hanbury say:

"Demand for this continues brisk, and, as there is no expectation of the arrival of new leaves in any considerable quantity till April, and stocks held are very small, the price of the alkaloid is likely to again advance.

"Moreover, the demand for this article in America is so great that, when there is any quantity of alkaloid to offer, it will be speedily bought up.

"Present trade prices are :- For 1 gramme, original bottle,

25s.; for small quantities, 1s. 9d. per grain.

"The application of this remedy becomes daily more comprehensive, and its success in different branches of medicine and surgery more and more marked. There can be no doubt of its permanent establishment as one of the most valuable articles in the materia medica, and especially as regards its physiological action.

"Our medical journals and those of foreign countries almost in every issue note some new application of cocaine, and prognosticate an unlimited utility for it. It can be used with such an entire freedom from danger that in many operations it is preferable on all points as an anæsthetic to

any other that can be employed.

"Not its least value, moreover, is in the fact that many operations formerly employing two practitioners can now be completed single-handed. Among the recent notices of its application are a number of supplementary cases in ophthalmics, some in aural surgery, naso-laryngeal surgery, urethral, vaginal, and rectal surgery, while it has been successfully applied in dentistry, and as a remedy for severe neuralgia.

"It is still mainly used in solution of the muriate, but solutions of the citrate, salicylate, and alkaloid are also used. A preparation in ointment form is much used, especially in cases of severe surface pain, where considerable absorption is required. Solutions in oleic acid, oil of cloves, &c., are also employed in such cases. It may be noted that the aqueous solutions of the salts of the alkaloid (excepting salicylate) do not keep more than two or three weeks.'

Mr. Martindale conversed as follows:-

"Makers' price has rapidly risen from 5s. to 21s. per gramme. Most of that used is made by Merck. Some of Petit's has been sold, and in this country Morson and Tanner have made a little. The stock of coca leaves in Europe now is very low, and, besides, old leaves do not yield nearly so much alkaloid as new ones. You can taste growing leaves in the Royal Botanic Gardens now (with the permission of the authorities). Fresh leaves leave a little sting, something like aconite; old leaves more resemble pure tea.

"The normal price for coca leaves in Peru has varied from about 1s. to 4s. per lb. It will probably be three or four months before we get a good stock here, though it is understood that some considerable quantity is expected in

about six weeks.

"1 believe nothing has been discovered in medical history, since the introduction of chloroform, which promises to so greatly relieve human suffering as this. I should class it, among alkaloids, as next to quinine and morphia in medical This 1 believe to be the general opinion of importance. medical authorities. Its full value cannot be ascertained while the price remains so great. As an instance of its value, 1 may mention that one man suffering from a painful laryngitis, which made the act of swallowing even milk a great suffering, on the advice of his doctor had some of the solution sprayed on his throat, and was not only able to swallow milk easily, but, under the anæsthetic influence of the cocaine, could take a mutton-chop. That patient has bought about 40% worth of cocaine from me within the past few weeks. I have myself experienced benefit from it. Travelling by rail, I got something in my eye which caused great pain. Nothing could be found, but on going to bed 1 painted the eye with a strong solution of cocaine. This relieved the pain at once, and I was able to get to sleep. On waking in the morning, however, the pain had returned, the effect of the remedy having passed off. After painting it again the eye was wiped all over its surface without causing any sensation, and the offending particle was removed,"

SWEET SPIRIT OF NITRE.

PROSECUTION UNDER THE SALE OF FOOD AND DRUGS ACT.

N January 6, at the Sheffield police-court, before Mr. Percy Blakelock and Mr. W. G. Blake, magistrates, an important case to chemists and druggists was heard. The defendant was John Gibson, chemist and druggist, of Chapeltown, about seven miles from Sheffield, who was summoned "for that he did, on November 21, 1884, unlawfully sell to Angus McNeill, to his prejudice, a certain drug, to wit, 4 oz. of sweet nitre, which was not of the nature, substance, and quality of the article demanded by the purchaser." The case excited great interest amongst the chemists of the town, a number of whom were present in the Court. The defendant did not appear, but was represented by Mr. Henry Glaisyer, LL.B., of Birmingham.

The prosecution was conducted by Superintendent Midgley,

of the West Riding Constabulary.

Mr. Glaisyer explained at the outset that the defendant had really no personal knowledge of the matter before the Court, inasmuch as his assistant sold the article; moreover, his client

was too indisposed to attend.

Sergeant McNeill, examined by Superintendent Midgley, said: I called at the shop of John Gibson, at Chapeltown, on November 21, in the evening. 1 believe I saw the assistant. I asked for 4 oz. of sweet nitre. He supplied it, and I paid for it. I told him that I was going to submit the sweet nitre to the public analyst, and 1 also asked him if he would like it divided. He said he did not require that. I sealed the bottle in his presence and took it to Superintendent Midgley. Detective-Scrgeant Hobson, who took the bottle to the analyst, brought me a receipt for it from Mr. Allen.

Mr. Glaisyer asked for the production of this receipt, but did not press this on finding that an officer would have to be

sent two miles for it.

Sergeant McNeill, continuing his evidence, said: That (pointing to a label) is the label, in my handwriting, that I put on the bottle. I wrote it in Gibson's shop, and it was on the bottle when 1 sent it to the analyst; and that bottle was sent by the analyst back to our office. The bottle is in the same state that it was when I received it from the analyst.

Cross-examined by Mr. Glaisyer. Was anybody present in the shop when you made this purchase? No.-Only the m in that served you? Yes.—You say you asked for sweet nitre on the instructions of your superintendent? Yes.— Were you told about there being two preparations of a so newhat similar character? No.—And you were to be surc and gct this? Yes.—Was there no label on the bottle? Yes.—What label? John Gibson, Chapeltown.—Were not the words "sweet spirit of nitre" on the label? Oh yes; 1 have the label here.—That was on the bottle when it was handed to you? Yes.—Did you take it off then and there? I did not.—Did you stick the label you say you wrote in the shop over this label? No; at the side .- Did you purchase any other

samples of sweet nitre at that time? No.—This was the only sample before you? It was.—There is a label, I think, under the present label—can you tell me anything about that? No.—It was there when you stuck yours on? It might be; I did not notice it.-1 did not catch whether you said what you paid for the article? 1 paid 1s. for it.—You say the official stamp on the bottle is that of the West Riding? Yes, and the number of division-No. 8.

Re-examined by Superintendent Midgley: When 1 went in the shop I asked for sweet nitro. I did not know sweet nitre in any other form. I did not say anything about London Pharmacopæia or the British Pharmacopæia. The assistant made no response to the observation that it was to be sent to the public analyst.

Mr. Glaisyer: How full was the bottle?

The Witness: I should call it three-quarters full.

Mr. Percy Blakelock: Did you take the bottle with you, or was it supplied to you?

The Witness: 1t was one 1 took with me.

Superintendent Midgley (to the Bench): I hold in my hand the certificate of the public analyst as to the results of the analysis in question.

Mr. A. H. Allen, analyst for the Riding, was then called, and said: In my capacity as public analyst, I received the bottle produced. 1 have analysed its contents and given a certificate. The results of my analysis are as follows: "I am of opinion that the sample was very deficient in real nitrous ether, which is the most important constituent of sweet spirit of nitre. The sample was also very deficient in spirit, having an alcoholic strength of 14 degrees over proof. This corresponds to a dilution of three measures of sweet spirit of nitre of good quality with nearly one measure of water. The sample was analysed before it had undergone any change in its constitution that could interfere with the results of the analysis." That is the bottle with the seal affixed, and I feel sure it has not been tampered with.

Cross-examined by Mr. Glaisyer: You say in your certficate, Mr. Allen, that this sample submitted to you is deficient in real nitrous ether. What do you mean by that? I mean that sweet spirit of nitre of good quality, as commonly sold, contains about 100 times as much real nitrous ether as this.

What would be the specific gravity of the article you are

now speaking of? The specific gravity of this sample? No; of sweet spirit of nitre as commonly sold? Well, the specific gravity of sweet spirit of nitre as commonly sold varies frem 850 to 845.

What test did you apply? I took the specific gravity, and 1 applied what is called the iron test. I ascertained the quantity of real nitrous ether very carefully by the quantitave application of the iron test.

Do you mean by that the test mentioned in the British Pharmacopœia? Yes. The iron test mentioned in the British Pharmacopæia, and also a modification which I con-

sider to be superior.

How much real nitrous ether should be present, in your opinion? There should not be less than 1 or $1\frac{1}{4}$ per cent. of real nitrous ether in anything that deserves the name of sweet spirit of nitre.

Mr. Percy Blakelock: How much?

Mr. Allen: Not less than 1 per cent. 1 found only 100th

Cross-examination continued by Mr. Glaisycr: How do you arrive, Mr. Allen, at the conclusion that there should not be less than $1\frac{1}{2}$ per cent.? From an extensive examination of various samples of sweet spirit of nitre. The general rule is to exceed that.

That is your opinion? It is not only my opinion—it is

my experience.

But that opinion is not accepted by other authorities? I beg your pardon.

Then I think, Mr. Allen, I must specially refer to a certain case. You remember Hall's case at Alfreton last summer?

You condemned a sample submitted to you as not being sweet spirit of nitre? No; I did not.

Did you not condemn a sample on the ground that it was deficient in real nitrous ether? Was it not sent to Somerset House, and the prosecution abandoned? The case was withdrawn.

The authorities did not agree with your opinion that sweet spirit of nitre should have anything like 11 per cent. of

nitrous ether? The authorities at Somerset House analysed the sample by a method which they have since informed me did not represent what they thought.

At all events, in that particular case what was the quantity of nitrous ether-you said it was inappreciable? Yes, it

It was inappreciable, and yet the authorities at Somerset House withdrew the prosecution? The authorities withdrew the prosecution because they were not aware of the whole facts; but they have since modified their opinion.

I would rather this sample was sent to Somerset House. But this is a very different case—this sample has been watered; or if not, it has not been prepared by the method's either in the London or British Pharmacopæia, or, indeed, by any authorised method in the present day. At any rate I consider nitrous ether a highly important constituent.

That, again, is questioned by other authorities? I don't know any authority worth mentioning that would question it.

Is there not Dr. Dupré? I do know that Dr. Dupré holds a strong opinion that it is an essential constituent in sweet spirit of nitre.

Then there is Dr. Attfield? I think he is your own

analyst—the analyst for the Trade Association.

I do not appear for them. Now, what does Dr. Attfield say about it—that there are other important constituents?

Oh, others; yes, there may be.

Does he not even question whether real nitrous ether is a most important constituent? I have heard him say he believed there were other important constituents of remedial value in sweet spirits of nitre. If he said that nitrous ether was not an important constituent it would put him in a minority, even if it did not make him a laughing-stock.

How do you arrive at the result you have arrived at—that there was only 100th part of real nitrous ether in the sample? I ascertained it very carefully by several methods that there was only that amount. I used the quantitative

application of the iron test.

What are the details? I took Eykman's method.

Did you vary from the description of Eykman's method as given in his own paper? Yes, and no; I used his own plan, and also a slight modification of it to get a better result.

Is not that a very delicate operation? It wants consider-

able care.

Is not the apparatus very complicated? No; I should not

call it very complicated. We very often use it.

In reply to other questions, Mr. Allen said that if the sample included any nitric acid he should give credit for it as nitrous ether.

By an ordinary sample, continued Mr. Glaisyer, do you mean what is known as the 850 nitre? I should, replied Mr. Allen, say sweet spirit of nitre was the ordinary name for what is officially known as the spirit of nitrous ether, and if you go to most druggists, nine out of ten will sell you a Pharmacopœia preparation called spirit of nitrous ether, which contains 3 per cent.

Having delivered yourself of that speech, Mr. Allen, is it not also a fact that the preparation which has a specific gravity of 850 is held as sweet spirit of nitre? And so is

845.

Is not the other article in general demand? You want people to buy a thing they don't want? I should say, no. I have considerable difficulty in getting it. People have said, "We don't keep that; we only keep the British Pharmacopæia article, 845.

They don't keep the 850? I say the respectable druggists

have no demand for it.

I object to that expression about respectable druggists. Well, I don't wish to cast any reflection on the defendant; if I had gone to him I should have got something very different.

If a preparation of sweet spirit of nitre had a specific gravity of 850, you would not recommend a prosecution? Oh, there you assume.

Has there ever been a conviction where the article sold as sweet spirit of nitre had a specific gravity of 850? Undoubtedly.

Can you quote me a case? I can mention dozens in my own experience.

Then I am very sorry they were not opposed. (Laughter.) Mr. Allen: This sample is not only nearly destitute of nitrous ether, but it is adulterated with water.

Mr. Percy Blakelock: What is the specific gravity of this sample?

Mr. Allen: It is 9107.

Cross-examination continued:

That indicates the presence of water? Either the presence of water or that the manufacturer did not stick to the London or British Pharmacopæia, or to any recognised authority-either one way or the other,

At what temperature was it taken? At 60° Fahrenheit.

Did you test it before you took it and immediately afterwards? It was taken strictly at 60° Fahrenheit. If there was a difference of a few degrees it would make no difference in

Was the liquid itself of the temperature of 60° Fahrenheit?

Yes; it was brought to that temperature with care.

What do you collect the gas over? Over a solution of

I think you said you worked with five cubic centimetres? The quantity varied—take it at ten.

From ten cubic centimetres what nitric oxide gas did you get? I think I am right in saying a quarter of a centimetre.

At all events, the test proved the presence of nitrous ether? Yes; giving you the benefit of any nitric acid as nitrous ether.

Did you find any nitric acid? I could not ascertain.

Then it may have been nitrous ether? Well, I give you the benefit of it.

In reply to further questions, Mr. Allen admitted that by collecting it over a solution of soda it would be apt to dissolve part of the gas and make the result a trifle low, but he had allowed for that. By his analysis he obtained a quantity of gas which would represent about one thousandth part of three per cent., but there would be a slight loss. He found nitrous ether present, but really there was not more than a trace of it.

Mr. Glaisyer asked if Eykman himself did not say that his

test would not give accurate results.

Mr. Allen replied in the negative, and said, on the other

hand, many chemists had admitted that it would.

Some further cross-examination took place about the nature and capacity of various tests, in the course of which Mr. Allen was asked by Mr. Percy Blakelock if he maintained that the spirit of sweet nitre was deficient in real nitrous ether. Mr. Allen replied in the affirmative, and also said that it contained much water.

Mr. Percy Blakelock pointed out that in the summons it stated that the sweet spirit of nitre was deficient also, to the prejudice of the purchaser; and that it was not sufficiently good to answer the purpose for which it was bought.

Mr. Allen replied that he did not think it was of much value for medicinal purposes without it contained a much greater quantity of nitrous ether than the sample he had

analysed.

Mr. Glaisyer maintained that there was a contest raging between Mr. Allen and other authorities as to the quantity of nitrous ether that sweet spirit of nitre should contain. The public, he said, demanded another preparation made entirely in another way from that which Mr. Allen, by his analysis, sought to force upon the public. The analysts were desirous of making the chemists sell a preparation that they preferred, whilst chemists and medical men wished to sell something entirely different—a thing that went under the name of "sweet spirit of nitre."

Mr. Allen said that a preparation made under the British Pharmacopoeia contained from 2\frac{3}{4} to 3\frac{1}{2}; and that the preparation made under the London Pharmacopæia of 1851 contained

about 1 or $1\frac{1}{2}$.

Mr. Glaisyer asked if no samples containing even less than that had been passed by Somerset House.

Mr. Allen replied that the prosecution was abandoned on the report of Somerset House; but since then they had modified their opinion.

Mr. Glaisyer: Then let us have this sample sent to Somerset House. I am quite content if that course is taken.

Superintendent Midgley objected to Mr. Glaisyer's suggestion, and said he considered it a reflection on Mr. Allen's analytical ability. He contended that the charge against the defendant was one of fraud.

Mr. Glaisyer (directly addressing the Bench) said he very much wished that the sample should be sent up to Somerset

House.

Superintendent Midgley again expressed the opinion that such a course would be irregular.

Mr. Glaisyer thought he was warranted in saying that the Bench did not possess the scientific knowledge necessary to adjudicate upon a case of this character, and it would be wise for them to accept the assistance of Somerset House before coming to a decision.

Mr. Glaisver asked Mr. Allen for how small a quantity of nitrous ether present he would advise a prosecution.

Mr. Allen replied that he should desire a prosecution in the case of a thing sold under the name of sweet nitre if there was sensibly under 1 per cent. But he should think it would be unwise for a prosecution to be taken if there was as much as $\frac{3}{4}$, or perhaps even $\frac{1}{2}$, but in his opinion that would be a very inferior preparation indeed.

Mr. Glaisyer asked if there was ½ per cent. of nitrous ether present whether Mr. Allen would advise a prosecution.

Mr. Allen said he should consider that a weak case; still, it would be an inferior preparation.

Mr. Glaisyer: But you think it would be a weak case if ber cent. was present?

Mr. Allen: Yes.

Mr. Glaisyer: How much was present in the sample sent to Somerset House?

Mr. Allen: 1.3 per cent.; but they have since admitted it was not nitrous ether they found.

Mr. Glaisyer: Have you their report?

Mr. A'lea: I have.

Mr. Claisyer: I don't know why they should discuss the case afterwards.

Mr. Allen: Then you should not mention it. Mr. Glaisyer: They asked you to tell me?

Mr. Allen: No; they asked me not to tell-(laughter)not to publish it.

Mr. Glaisyer: Now with regard to the water-how did you test that?

Mr. Allen: By the specific gravity.

Did you use a bottle or the hydrometer? A bottle.

Can you tell me whether that water was added after the preparation was made? No, I cannot; if I could tell that, I could tell who was to blame.

Mr. Percy Blakelock: You say that it is obviously below par?

Mr. Allen: Yes.

Mr. Glaisyer: Supposing this stuff had been kept for three or four months, would not that account for the state you found it in?

Mr. Allen: No; if it was originally of good quality, it would keep fairly good, though it would gradually deteriorate. But there is always water present in some quantity? Yes; there is in spirit.

At all events this article would not be hurtful, whether beneficial or not? Well; gin and water is not hurtful.

Some people think so. (Laughter.)

Re-examined by Superintendent Midgley:

When you buy gin you don't expect to buy water? No.

Is it your opinion that water has a decomposing effect on nitrous ether? Yes, I know it has. I say water causes it to deteriorate. If it had been in the shop six months, that might account, perhaps, for the deterioration even without water; but if not it would be the water.

You would recommend a prosecution if you found 25 per cent. of added water? Yes, certainly.

And buying water would be prejudicial to the purchaser? Certainly.

You used great care in arriving at these conclusions? Yes; I took great trouble over it because it was under peculiar circumstances.

Might not the water have been added at Chapeltown? Oh, undoubtedly.

But from your analysis you cannot say whether it was added when the preparation was made or subsequently? I don't know the history. My impression is this-if the absence of nitrous ether is due to the water, I should say the water must be added a month or six weeks, but I cannot say posi-

Mr. Glaisyer addressed the Bench, and contended that the article in question, which had a specific gravity of 850, was properly sold as sweet spirit of nitre. He regretted that in the present case the shop assistant did not take a portion of the sample from the police officer at the time it was offered;

but said he did send a sample from the shop bottle to the wholesale house who supplied it-Messrs. Harker, Stagg & Moss, of London, one of the best houses in the trade. Mr. Moss, a gentleman of great scientific attainments, analysed that sample, and found it contained nitrous stances he asked the Bench to let the sample go to. Somerset House. He was present not only to defend the wholesalc house, but the defendant, and if there was blame he wanted it to be put on the right shoulders. If that wholesale house supplied the defendant with sweet spirit of nitre having a specific gravity of 850, and it had been watered since, surely no imputation could rest on the wholesale If, on the other hand, they supplied an improper article, they were to blame.

Henry James Godfrey, the assistant, was called, and said he ordered the sweet spirit of nit:e 850, from Messrs, Harker, Stagg & Moss's traveller, that it was invoiced on November 15. and arrived on the 16th or 17th. He declared most positively that water had not been added, remarking that it was absolutely impossible, from the way he tied it up in the shop bottle, for anyone to get at it without his knowledge.

Superintendent Midgley asked if it was not a common practice to add water for country customers.

The witness: I pledge my word that I did not.

In reply to further questions he admitted that Mr. Gibsor. and his son had access to the shop.

In answer to the Bench he said the article was sent in a

Winchester quart bottle, and cost 14s. 2d.

Mr. John Moss explained that there were two preparations sold, and that they differed in ingredients, in proportions and in combinations. One had a specific gravity of 845 and the other of 850. Eykman's test for nitrous ether was complicated, consisted of several operations, required delicate manipulation and some considerable experience to work it and when properly carried out did not give accurate results because solution of soda over which the nitric oxide gas is collected is a solvent of that gas, and whatever amount of nitric oxide was obtained would require to be increased by the amount held in solution. Eykman himself only said of it that it was better than two other processes with which he compared it, and admitted that the results were not accurate. There should be nitrous ether in an appreciable amount in It was supplied to chemists, medical men, hospitals and infirmaries, and it was an article they really wanted but it was not supplied to them by any collusion. The 850 article was supplied to the defendant, and it contained nitrous ether in an appreciable amount. Mr. Allen's mode of stating the strength of sweet spirit of nitre was, he considered an unusual one, but it had since been rendered clearer by the statement that the specific gravity was 910, and be thought the prosecution had been very properly made, considering the nature of Mr. Allen's report

Mr. Percy Blakelock: You say, Mr. Moss, that this test for nitrous ether is a very delicate one. Is taking the specific gravity a very delicate test?

Mr. Moss: It is, in another sense.

Mr. Percy Blakelock: I mean, is it a test of such a nature that the analyst would be likely to make a mistake in performing it?

Mr. Moss: I cannot say that it is.

The magistrates retired to consider their decision, and after a short absence they returned into court, when Mr. Percy Blakelock said they could not see any reason for acceding to the request of Mr. Glaisyer that the sample should be sent to Somerset House. They thought they might safely rely on Mr. Allen's evidence, supported, as it had been, on important points by the candid admission of Mr Moss. The defendant would be fined 20s., and 11. 15s. 6d. costs

Superintendent Midgley read out three previous convictions against the defendant for having unjust weights; but Mr Glaisyer said he had never heard a record read out in a case like that, and he hoped the Bench would not alter the fine Mr. Blakelock said they always dealt more leniently with a first offence, but as they had given their decision they would not alter it.

Mr. Glaisyer: There is no imputation on the wholesale house at all

Mr. Blakclock: Not at all; I think we made that clean before.

We are greatly obliged to Mr. Moss for his evidence.

FAILURES IN 1884.

FROM STATISTICS COMPILED BY MR. RICHARD SEYD, F.S.S.

THE number of failures in the United Kingdom announced in the year 1884 has been 4,394, of which 607 arc in the financial, wholesale, and manufacturing branches of trade, and 3,787 in retail trade, professional pursuits, builders publicans, among the working classes, &c.

The following table gives the total number of failures in each year from 1877 to 1884:-

				Num	ber of Failures									Num	ber of Fai	ilures
1877	 	 ••	 		11.022		1881		••	••	••	••	••		12.005	
1878					15,059		1882					• •	• •		11,019	
					40.07	1	1883	••		••					10.599	
1880	 	 	 		13,147	1	1884		••	••	• •	••			4,394	

The various branches of commerce show the following proportions of failures:—

1983 1884	1883 1884	1883 1884
Agents, commission, yarn, &c. 98 32	Discount and bill brokers — 1	Merehants 147 78
Bankers, joint-stock banks, and	Druggists, &e. (wholesale) 35 11	Provisions 53 15
foreign bankers 2		Rope, sails, &c 9 3
_	Drysalters, oils and eolours 31 21	Shipbrokers and owners 17 24
Boots and shoes 107 44	Dyers, bleachers, and finishers 40 9	Shipbuilders ., 6 7
Brewers 11 1	Electroplaters 3 6	Stationers, paper, &c 17 12
Cigars and tobacco 5 3	Engineers, founders, iron, metal	Sugar-refiners 1 0
Cement and asphalte 4 1	and hardware merchants 180 89	Tea, eoffee, and groceries 17 9
Coals 34 14	Financial agents 8 1	Timber 26 20
Contractors 4 8	Glass, lead, earthenware, &e 7 1	Warehousemen and importers
Corn merchants, millers, &c 26 19	Hats and eaps 21 3	of foreign goods 63 14
Cotton and eolonial brokers 11 5	Hops 3 1	Wine 62 30
Cotton spinners and manufae-	Jewellers 21 7	Woolstaplers and merchants 3 12.
turers 54 5	Manufacturers and merchants	Woollen and cotton wastes 19 8
Curriers, tanners, and leather	of woollens, worsteds, elastics,	
merehants 58 18	silks, stuffs, hosiery 159 7 73	Total 1,361 607
In retail trades, &c., there were :-		
· ·		
1883 1884	1883 1884	1883 1884
Accountants 28 10	Coopers 7 5	Musical instrument makers and
Aetors, artists, &e 6 5	Cornebandlers, hay and straw	dealers 27 8
Aërated waters, ginger beer, &c. 27 17	dealers 95 30	Newspaper proprietors 8 7
Auctioneers, bouse agents, sur-	Cowkeepers, dairymen 62 23	Nurserymen, florists 47 15
veyors 146 58	Drapers, hosiers, &e 371 139	Oilmen 49 16
Bakers 270 83	Engineers in navy and officers	Opticians 1 3
Blacksmiths 57 22	in army and navy (active and	Pawnbrokers 12 10
Boat builders, mast makers 10 8	retired) 22 19	Photographers 20 8
Brewers 38 30	Farmers 453 267	Plumbers, painters, gasfitters 249 83
Briekmakers 41 15	Fisbingsmack owners 14 5	Printers, stationers, engravers,
Brush and basket makers 19 6	Fishmongers, poulterers 98 26	&c 127 55
Builders, architects, &c 609 230	Furniture dealers, brokers 56 23	Professors of music 8 1
Butchers	Gardeners, market gardeners	Publicans 886 272
		Saddlers, harnessmakers 59 25
Cab, omnibus proprietors, livery	Glass and carthenware dealers 62 26	Schoolmasters 36 12
stable keepers 64 15 Cabinet makers, upholsterers,	Greengrocers, fruiterers, potato	Shipwrights 5 3
furniture, &e., makers 106 39	salesmen	Shoe and boot makers and
Carpenters, joiners, wheel-	Hairdressers, perfumers 28 11	dealers
wrights 162 87	Hatters	
Carriage builders	Ironmongers, japanners, tinmen 168 94	Stockbrokers, jobbers, &c 27 19 Surgeons, physiciaus, dentists 56 28
Carriers, eart owners	Jewellers, watchmakers 124 51	Tailors 277 92
Carvers, gilders	Labourers, bricklayers, slaters 143 48	Timber dealers and sawyers 39 16
Cattle and horse dealers	Leather dealers 15 9	Tobacconists
Chemists, druggists 61 28	Lodging house keepers	Toy and faney dealers
Clerks and commercial tra-	Looking glass makers, picture	Tradesmen's assistants 63 32
vellers 190 93	frames 33 9	Undertakers
Clerks in holy orders	Milers and eorn dealers 48 18	Micellaneous
Coal dealers	Milliners, artificial florists, &c. 61 . 16	Private persons
Coffee and eating house keepers 30 14		Tritute persons
1 The state of the	Miners colliers 17 5	
Confectioners 48 23	Miners, collicrs 17 5 Music sellers and publishers 6 4	Total 9,238 3,787

Mr. Seyd adds the following remarks:--

"The decrease in the number of failures during the second part of the year 1884 is even more remarkable than that during the preceding half, and as rumours of privat? arrangements are continually afloat, it remains a very open question whether the new Bankruptcy Act is working as well as its promoters anticipated it would do. The general experience

seems to be that creditors are, under the new Act, more disposed than formerly to accept any reasonable offer of composition made to them, rather than encounter the trouble and expense of Bankruptcy proceeding.

"As a Commission is now sitting to inquire into the working of the Act, it may be advisable to draw attention to Clause 115, in which it is enacted that 'Any person or persons carrying on business under a co-partnership name may

be proceeded against under this Act in the name of the firm, &c.'

"This certainly appears a serious retrogression from the preceding Bankruptcy Law, which insisted that the name of each individual partner should be specified in the notification

of Bankruptcy.

"This Clause in the new Act seems to be a great mistake which ought to be rectified at once, or it may lead in time to much inconvenience, as it leaves a door open to unscrupulous traders, who may work under fictitious names without much fear that their real names may become known to the public generally.

"It so happens that several failures have already taken place during the past twelve months among firms of some importance where the 'Receiving Order' was taken out

against the firm alone.

"It does not follow because the name of a firm is, for instance, Brown, Jones & Smith, that there is a Brown or Jones or Smith in the firm, irrespective of the fact that the individuality of the partners is quite lost sight of where their Christian names are not given in full; it must therefore be admitted that it is in the interest of commercial firms generally that the failure of 'a firm' should necessitate full publicity being given to the names of each partner."

BANKRUPTCIES AND LIQUIDATIONS.

GEORGE SMITH PALMER, 3 Grand Promenade, Brixton, Chemist.

This was the first meeting of creditors, the above-named debtor having filed his own petition on December 12, and his public examination being fixed for the 22nd inst. The meeting was held on Tuesday, in the London Bankruptcy Court, under the presidency of Mr. Stewart. Mr. Law appeared for the debtor. The accounts which have been filed showed

liabilities 1,116l., with assets 125l.

The debtor, who carried on business in Pimlico up to three years ago, attributes his failure and deficiency to the heavy expenses of opening and establishing his present business at Brixton, to bad debts, to legal expenses, to his trade and personal expenses having been in excess of his profits, and to depreciation in the value of his stock and trade effects, as estimated for realisation. He has kept books for the purpose of his trading, but they are not such as sufficiently disclose his transactions and financial position.

Appended is a list of the creditors:-

Unsecured.

* * * * * * * * * * * * * * * * * * * *					
Barelay & Sons, Farringdon Street	••	••	• •	£117 0	0
Bishop, G., Lugwas Court, Hereford				50 0	0
Bray, W., Brixton		••	••	15 5	8
Bunker, T., 264 Waudsworth Road				15 0	0
Bowling & Govier, Bishopsgate Stree	t.,			15 1	2
Chandler, J. F., Wandsworth Road				25 0	0
Chave & Jackson, Hereford				22 17	8
Evans, J. B., Brixton		••		100 0	
Finek, C., Mitcham	••	.,		88 0	0
Gill, A. W., Borongh				15 0	0
Hill & Sons, 103 Southwark Street				58 14	_
Hearon, Squire & Francis, 5 Coleman				45 2	_
Hart & Sons, Aldersgate Street			•	10 0	_
Maw, Son & Thompson, Aldersgate S				41 11	•
		••	••		_
Palmer, Mrs. S., Lineoln	• •	• •	••	100 0	0
Smith & Co., 132 Borough, S.E				16 13	7
Toogood & Co., Grosvenor Square				10 6	9
Thompson, Ayseough & Son, 22 Wors	hip S	treet, I	E.C.	18 4	0
Wright, C. R., Covent Garden				32 5	0
York Glass Company (Limited), York				19 19	
Twenty-seven eredite					

Fully Secured.

Hearon, Squire & Francis, 5 Coleman Street .. 403 16 8

Partly Secured.

The debtor, in answer to the chairman, said he was not yet in a position to make an offer to his creditors, but he

hoped to be able to do so in a week's time. The chairma said he thought that ample time had elapsed to enable hir to complete his negotiations, but the debtor replied that i was only the preceding day that the gentleman who promise to advance the money withdrew. He had, however, anothe purchaser of the business in view. In the end an adjournmen was granted.

W. M. WALKINGTON, BIRMINGHAM.

In the Birmingham County Court, December 15, befor Mr. Registrar Parry. In re William Marmaduke Walkington of 318 Nechells Park Road, chemist and druggist. Debt 274l.; assets, 14l. Public examination. Mr. H. E. Para appeared for the bankrupt. Mr. Sharp, the official receive regretted to say that the bankrupt had been inattentive in the statement of officers and had fold amounted in the statement of officers and had fold amounted in the statement of officers and had fold amounted in the statement of officers and had fold amounted in the statement of officers and had fold amounted in the statement of officers and had fold amounted in the statement of officers and had fold amounted in the statement of officers and had fold amounted in the statement of the statemen filing his statement of affairs, and had filed amended info mation only on the Saturday before. He therefore asked to an adjournment. The debtor said his books were not kep in "rotation," and it was a matter of difficulty to make or the accounts. He had been to the official receiver's office a last week. The matter was adjourned for a week. O December 22, W. M. Walkington came again before the Registrar, and was examined by Mr. Sharp, official receive He said he had been two and a quarter years in Birmingha as a chemist. He learned the business under his father, wh was a chemist in Tenby. His father failed about 1860, an he bought the business for 500l. He raised the money on bill of sale, and subsequently the bill of sale holder realise it, and he had to leave. He was in possession of two house which he had mortgaged to a gentleman in Tenby. The: were taken possession of by the mortgagee, and he could no exactly explain under what circumstances. He remove from Tenby to Barnstaple, where he started in business as photograper. He was obliged to file his petition there, an had not yet obtained his discharge under it. From Barr staple he removed to Walsall, and thence to Birminghar He could not say whether he had sold his goods at co price or made a profit; they had so much competition in th drug business in Birmingham that they had to "go ver sharp." He did not suggest that some goods had been so at less than cost. Mr. Sharp said he was satisfied with the accounts prepared by the debtor, and the Registrar declarathat the examination was concluded.

HENRY BEDFORD SLEEMAN, India and General Merchan 37 Lime Street, E.C., and 56 Charlotte Stree Birmingham.

THE first meeting of creditors of Henry Bedford Sleema India and general merchant, trading as "H. B. Sleeman Co.," was held at the Bankruptcy Buildings, Portugal Stree on January 8 at 11 A.M. There was only a small attendang of creditors.

The summary of the debtor's statement of affairs, pr viously published, was as follows:—

Creditors — Liabilities. Unsecured £11,412 13 4 Fully se- eured £5,992 16 3 Estimated	Assets. Cash, stock-in-trade office-furniture. &c. Book-debts, good Book-debts, doubt- ful and bad,	£374 2,030	
value of securities 5,992 16 3 Other lia-	£4.063 16s. 2d. estimated to produce Other property Bills of exchange	675 61 335	'7
bilities ex- peeted to		3,477	5
rank 6,193 17 4 Liabilities	Deduct preferential debts	100	5
not ex- pected to rank£2,137 1 10 Preferen- tial ere-	Deficiency	3.376 14.234	
ditors 100 5 5		17,311	10

The debtor commenced business in 1872, and from 18′ to 1877 he was in partnership with Mr. J. W. Robertson at Mr. T. F. Lynch. He attributes his failure and deficient chiefly to losses by bad debts, 10,240*l.*, including 6,84′ contracted between 1878 and June, 1883, written off in bool and not shown in above statement, and to loss on good taken over from a debtor at Lagos, 3,326*l*. His books have

not been properly balanced since June, 1883. The security reld by creditors includes a guarantee by J. W. Robertson, as late partner, for the amount due to the debtor's bankers, 5,8831. 7s. 4d.; and guarantor proves against the estate for this amount and for other sums, raising it to something over 11,0001.

The debtor had no offer to make, and it was resolved that he be adjudicated bankrupt. Mr. John Pattison, 35 Walbrook, was appointed trustee, with Messrs. J. W. Robertson, Edwd. Geo. Coles, and John Pearson as committee of inspection. It was stated that about 400%, had been received on behalf of the debtor.

In the London Bankruptey Court, on January 13, before Mr. Registrar Pepys, the debtor applied to pass his public

examination.

On the case being called on, Mr. Goddard (Peacock & Goddard) said that the trustee's appointment being so recently made as last Tuesday, Mr. Paterson was not in a position to proceed with the public examination, while his appointment had not yet been completed by the Board of Frade. He therefore asked for a postponement for three weeks, and the Court, there being no opposition, adjourned he public examination till February 3.

Appended is a list of the creditors:—

Unsecured.

Allen & Hanburys, 7 Lombard Street, E.C	
	£47 0 8
Andrew, J. H., & Co., Sheffield	16 10 10
Ashford & Co.,51 Milton Street, E.C	12 11 4
Atterbury, F. H., 7 Great St. Helens	83 8 7
Alstons, Scott & Co., Colombo, Ceylon	36 16, 11
Butler & Crispe, 4 Cheapside	48 12 0
Burroughs, Wellcome & Co., Holborn Viaduet	49 5 6
Dames G. Marshamanah	38 15 0
Dollar Tillian Australian	10 15 0
Buleke, F., jun., Antwerp	
Burge & Warren, Hatton Garden	13 16 3
Bagley & Co., King's Cross	50 10 0
Beckett Bros., Birmingham	11 9 7
Bratby & Hinchliffe, Manchester	14 14 3
Bayliss, Jones & Bayliss, Monmore Green, Wolver-	
hampton	247 14 2
Brand & Co., 11 Little Stanhope Street	57 2 0
Bear & Sons, T., Guernsey	11 12 0
70 11 C 77 1 C 71 C 1 C	11 16 11
Brooks & Green, 25 Mineing Lane	
Bolle, G., 61 Cheapside	51 6 6
Calvert, F. C., & Co., Manchester	19 1 5
Cartland, J., & Son, Birmingham	16 19 0
Crownshaw, Chapman & Co., Sheffield	11 7 11
Crosse & Blackwell, Soho Square	39 8 11
Colwell, H. M., Newington Causeway	10 4 0
Culver, G., Pentonville	25 14 0
Christie, J. E. & W., & Co., 35 Graceehurch Street	74 16 9
	20 6 0
Cresswell, R., & Co., 32 Red Lion Square	
Collins, W. Kyrle, Hereford	52 10 9
Coles, E. G., 29 Gresham Street, E.C	309 0 0
Davenport, J. T., Bloomsbury	18 7 3
Dale, H. E. J., 26 Ludgate Hill	11 10 0
Dottridge Bros., City Road	14 6 5
	1. 0 0
Dalmas, Anthony de St., Leicester	16 2 4
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C	16 2 4 38 18 4
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow	16 2 4 38 18 4 37 19 5
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield	16 2 4 38 18 4 37 19 5 10 1 5
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C.	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Evans, J., C., New Cross Eagle Edge Tool Company, Wolverhampton	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Evans, J., C., New Cross Eagle Edge Tool Company, Wolverhampton	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Evans, J., C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road Edinburgh Western Tanning Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank,	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works Fairbanks, Lavender & Son, Walsall	16 2 4 38 18 4 37 19 5 10 1 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9 79 18 11
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Evans, J., & Sons, 33 Old Street, E.C. Evans, J., & Sons, 33 Old Street, E.C. Edge, Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works Fairbanks, Lavender & Son, Walsall Ferris & Co., Bristol	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9 79 18 11 17 13 3
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works Fairbanks, Lavender & Son, Walsall Ferris & Co., Bristol Fandel, Phillips & Son, Newgate Street	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9 79 18 11 17 13 3 67 3 11
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works Fairbanks, Lavender & Son, Walsall Ferris & Co., Bristol Faudel, Phillips & Son, Newgate Street Fredericks, J., South Africa	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9 79 18 11 17 13 3 67 3 11 15 0 0
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Evans, J., C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works Fairbanks, Lavender & Son, Walsall Ferris & Co., Bristol Faudel, Phillips & Son, Newgate Street Fredericks, J., South Africa Foy Bros., Cawapore, India	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9 79 18 11 17 13 3 67 3 11 15 0 0 20 0 0
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Euo, J. C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros. (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works Fairbanks, Lavender & Son, Walsall Ferris & Co., Bristol Faudel, Phillips & Son, Newgate Street Fredericks, J., South Africa	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9 79 18 11 17 13 3 67 3 11 15 0 0
Dalmas, Anthony de St., Leicester Davy, Yates & Routledge, 64 Park Street, E.C. Dick & Parker, Glasgow Davis, M., & Co., Smithfield Dodds, W. J., Selhurst Evans, J., & Sons, 33 Old Street, E.C. Evans, J., C., New Cross Eagle Edge Tool Company, Wolverhampton Eley Bros, (Limited), 254 Gray's Inn Road Edinburgh Western Tanning, Currying, and Japanning Company, Edinburgh Evans & Pierson, Basinghall Street Edison & Swan United Electric Company, 57 High Holborn English, Scottish, and Australian Chartered Bank, Cornhill Fletcher, Fletcher & Stevenson, North London Chemical Works Fairbanks, Lavender & Son, Walsall Ferris & Co., Bristol Faudel, Phillips & Son, Newgate Street Fredericks, J., South Africa Foy Bros., Cawapore, India	16 2 4 38 18 4 37 19 5 10 1 5 15 6 5 10 2 11 26 15 7 21 18 9 18 7 2 15 19 11 214 5 9 25 4 2 136 18 5 22 8 9 79 18 11 17 13 3 67 3 11 15 0 0 20 0 0

		- 31
Gillingham Portland Cement Company,	07 771	
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Gibbs, A., & Sons, 15 Bishopsgate Street		. 52 16 0
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Hutchinson, N. & H., Sheffield	•• •	
Hickling & Co., Maidenhead		. 10 10 0
Howell, H., & Co., 180 Old Street, City Road		
Hill, T., Lye Galvanising Works, near Stour	bridge.	• 16 15 3
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Maignen, P. A., 22 Great Tower Street, E.C.		
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Birmingham		. 500 3 6
Manson & Schramm, Chalk Farm Road, N.W		. 11 10 6
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North China Insurance Company, 28 Cornhill

A GERMAN firm supplies chloride of lime packed in the following manner:—Quantities of \(\frac{1}{4}\), \(\frac{1}{2}\), and 1 kilo. are wrapped first in strong paper and sealed. The packet is then dipped

following manner:—Quantities of $\frac{1}{4}$, $\frac{1}{2}$, and I kilo are wrapped first in strong paper and sealed. The packet is then dipped for a moment in melted resin, which is as nearly cool as it can be to be fluid. This forms a perfectly air-tight varnish, and the parcel is lastly wrapped in a good paper and labelled.

foreign and Colonial.

CULTIVATION OF CARDAMOMS.—A correspondent of the *Tropical Agriculturist* asserts that on an estate in Ceylon 4 acrcs planted with cardamoms produced 12,000 rupees in one year.

THE SANTONINE MANUFACTURE. — Mr. Joh. Diedr. Bieber, of Hamburg, received a telegram from Tshimkend, Turkestan, dated 15/27 December, 1884, of which the following is a translation:—"The santonine factory of Iwanoff and Sawinkoff has commenced operations in all parts this day."

FRANCE FOR THE FRENCH.—The *Progrès Médical* mentions a report that some of the French medical students are preparing a petition asking that foreign students shall rot in future be eligible to compete for any of the prizes of the school, nor for any of the positions in the gift of the medical faculty. The *Progrès* very properly heads this item "en arrière."

WINDOW DISPLAY.—A Fulton Street drug-store has in its window a representation, made of chemicals in great part, of the Greely expedition in the Arctic regions. The little colony is shown in the act of performing the funeral ceremonies over one of its members, and the whole scene is well carried out in its details.—Oil, Paint, and Drug Reporter (New York).

EAU DE COLOGNE AS A BEVERAGE.—According to the *Pharmaccutische Post*, November 29, 1884, in the Ural district in Russia, where alcoholic drinks are strictly prohibited, the inhabitants who are well off have of late years taken to drinking eau de Cologne, the small town of Gurjew alone importing and consuming 2,000 dozen bottles annually. This taste has given rise to a number of local manufactories of imitations of the article.

The Alizarine Manufacture.—The Moniteur des Produits Chimiques states that the German manufacturers of alizarine have overstocked the market. There are altogether in Germany nineteen manufactories of colours from coal. Of these five produce alizarine only. The annual production of this article at present prices is valued at 50,000,000m. Of this quantity 80 per cent. is exported. The works at Ludwigshafen, Hochst, and Elberfeld between them turn out half the total. England, France, and Switzerland together produce about 20,000,000m. to 30,000,000m. worth. It is added that the crisis is due partly to a change in the public taste, which just now prefers pale and undecided tints, and partly to the pressure of products on the market by the larger makers, who hope by this means to crush out some of the smaller firms.

ALLEGED POISONING WITH COLCHICINE.—The Daily Ners of January 13 states that a Parisian artificial flower-maker named Ribout has been arrested on a charge of having poisoned his wife. The woman died suddenly in March, and a week later the man proposed to one of his shop-girls, and was married to her in July. It has lately been discovered that shortly before the death of the first wife he asked a Paris chemist for colchiline [doubtless a mistake for colchicine], but was refused without a medical prescription. Subsequently he presented a forged prescription to a chemist in the country, who, seeing an extraordinary quantity, refused to make it up. It is supposed that he afterwards got the poison elsewhere. He now states that he wanted it to dye his flowers. The body of his wife is to be exhumed; but all traces of the poison have probably disappeared.

OPIUM SMUGGLING IN INDIA.—A good deal of ingenuity is displayed by opium smugglers in the central provinces in running their contraband goods. In one case which came before the authorities last year $2\frac{1}{3}$ maunds of foreign opium were discovered stowed away in the saddles of two camels, and in another case $5\frac{1}{2}$ maunds of the same material were found packed in vessels supposed to be full of oil. On examination of these vessels it was discovered that a tube running down the centre of each was filled with oil, the remaining portions of the vessels being packed with opium. In both

these cases the opium has been brought from Holkar's terr, tory, and the smugglers were caught at Nimar whil attempting to run it into the Bombay Presidency. Despi the successful detection of the offenders in these instance it is daily becoming a matter of greater difficulty to dete opium smuggling. The well-to-do importers of contrabar opium rarely attempt to run the drug in person. They gen rally employ poor agents, such as grass and wool cutters, where the suspected, and to whom a period of imprisonment does not much matter, their employer in the meanting helping their families.

GERMAN APOTHECARIES' OATHS .- Oath taken by the pr prietor or manager of a pharmaey, dated Meininge February 4, 1884:—"J. N. N. swear by God the Almigh and All-knowing that I will conscientiously manage th pharmacy I superintend, and that I will precisely follow tl laws, orders, and regulations made to guide medical at pharmaccutical matters; and I will also, should the author ties entrust me with any matter coming within the scope my calling, diligently and carefully, and to the best of n ability, carry it out, and I will in all verbal or written cor munications referring thereto, or to any of my function connected with the management of my pharmacy, deposition or opinion to be given by me as an expert, a without prejudice and according to my conscience ar knowledge, and in keeping with the strictest truth; and will also, if the nature of the case or the official rules demar it, preserve an inviolable silence and secreey. Towards n superiors I promise to behave in a constitutional, obedien and obliging manner, and to my confreres in a brotherly at colleague way. So help me God!" Oath taken by a assistant:—"J. N. N. swear by God the Almighty at All-knowing that I will precisely follow all the laws, order and regulations concerning pharmaceutical matters, and wi diligently perform all things pertaining to my duty, and wi where the nature of the case requires it, preserve an inviolab secrecy, and generally conduct myself in a manner becomir an upright assistant. So help mc God!"

AMERICAN LAW ON DISPENSING ERRORS.—The Wester Druggist (Chicago) reports a case which, it states, occ pied the Superior Court of Cork County nearly two week wherein a man named Isidor sued a druggist, name Charles H. Plautz, for \$5,000 as damages resulting fro the death of a son five months old, plaintiff alleging the death to have been due to an error on the part of the dispenser, who was an assistant in the employ of the defendant.

A case occupying a court nearly two weeks cannot l fairly reported in a page and a half; but, as far as the Druggist's report goe; it would hardly seem that the plainti presented a strong case. The physician who attended the child prescribed 2 grains of calomel and 40 grains of suga to be put up in 10 powders. The powders were obtaine from Mr. Plautz's store, and one was administered. The infant began to grown and have convulsions. The phys cian was again sent for, and he and another doctor who we called in concluded that the child had taken a narcoti They injected 40 oz. of a strong decoction of coffee in s hours, ejecting it by pressure on the stomach. In the san time two hypodermic injections, each containing 5 grains (camphor in oil, were administered. The child died twelv hours after taking the powder Another doctor analysed tw of the powders, and testified that he found $\frac{34}{100}$ and $\frac{35}{100}$ of grain of morphia in éach.

For the defence the error was denied, medical exper testified that the symptoms described were not conclusive a morphia poisoning, and chemists challenged the analyst tests. Further, it was admitted that a post-mortem examnation had shown that one of the child's lungs had collapse because of the treatment.

The interesting paragraph of the Court's instructions the jury was as follows:—

"Should you believe from the evidence that the plainti is entitled to recover damages against the defendant you at to bear in mind that, in cases of this kind, the law limits th damages simply to a fair and just compensation, with reference to the pecuniary injuries which the evidence may show as resulting from the death of the deceased to his next of kin; and you must not receive the impression that damage can be awarded for mental suffering, bereavement, or anguis

experienced by parents and relatives on account of the death of the deceased. It is your duty, therefore, to dismiss from your minds all consideration of grief, sorrow, and mental affliction of parents and relatives, and also all personal feeling and sympathy which may have been aroused by the recital of the circumstances of the death, and considerenly the pecuniary injury, if any, from the evidence you find to be."

The jury deliberated some hours, and ultimatelty found for the plaintiff, awarding \$750 damages.



EVANS' POROUS FELT PLASTERS.

FROM Messrs. Evans, Sons & Co. we receive a sample of a a new form of plaster, the novelty being that it is spread on red felt instead of on the usual leather. We should judge there has been some difficulty in so preparing the felt that the plaster will not soak through; but, however this may be, the result seems a complete success. The felt retains its softness and warmth, and when applied the advantages of a chest protector and plaster are combined. These plasters do not wrinkle or pucker, and are very pliable. They are perforated, and are therefore ventilating as well as warm. They are made in four sizes, long and heart-shape, roborans, strengthening, belladonna, and capsicum. In price they correspond closely with the prices of those on leather.

FOSTER'S PATENT "INTERMITTENT" SCREW-STOPPERED BOTTLE.

AMONG the myriad forms of stoppers for aërated-water bottles, none have attracted so much attention recently as the "screws" as illustrated in the annexed engraving. For this one, we understand, a gold medal was awarded at last



year's Health Exhibition. To the consumer the advantages are many and obvious, not only over corks, but also, in many respects, over other patent stoppers. The rim of the stoppers extends a little beyond the neck of the bottle, so that a good grip is acquired; opening is the simplest matter possible, and, above all, a portion of the contents can be withdrawn without leaving the rest flat. These stoppers are made of

specially-prepared hard wood, which does not in any way affect the water. These "intermittent" stoppers are made for beer and wine bottles as well as for aërated waters. The method of bottling is extremely simple, and the machine, of which we add a sketch, can be worked by a girl or boy. After filling, one turn of the handle screws in the stopper quite securely. The machine costs something under twenty pounds, and from twenty to thirty dozen per hour can be turned out from it.

PATENT MASTICATOR.

AMONG the many machines introduced by Messrs. Follows & Bate, of Manchester, the patent masticator or dinner mincer, a very pretty and useful little apparatus, might probably be recommended to some customers when the more usual therapeutic remedies for indigestion have failed.

CARBONATED CIDER.

MESSES, BARNETT & FOSTER send us a sample of "carbonated cider," and call our attention to the advantages resulting from such a method of bottling this very genuine English beverage. First, there can be no doubt that in appearance and flavour the cider is much improved. But, besides this, as in the case of beer bottled by the same process, the fermentation is checked, and the fluid preserved by the carbonic acid, so that not only is the alcoholic strength reduced, but a clear, bright, sparkling liquor is assured, with keeping properties enhanced. We do not understand that Messes. Barnett & Foster are ready to supply carbonated cider, but they do manufacture the machinery for carbonating and bottling it. This system of improving ales and ciders, under Mr. Foster's patent, is likely to be of great service, especially for such as are intended for exportation.

AN AUTOMATIC DISINFECTOR FOR WATER-CLOSETS.

Mr. T. Williams, F.C.S., exhibited at a recent meeting of the Society of Chemical Industry at Liverpool a small apparatus intended to supply a disinfectant to water-closets. The vessel containing the disinfectant (any liquid disinfectant) is attached to the wall near the pipe from the cistern in any convenient position. A glass gauge-tube outside shows the quantity of disinfectant in the vessel. A tube from the liquid passes through the top of the vessel, and being bent, conducts into the pipe from the cistern. On the principle of the pump a sufficient quantity of disinfectant is drawn through this tube to mix with the water. The moment the water ceases to flow, the small tube becomes a syphon, and the liquid remaining in the tube is drawn back.

PRESERVING WOOD.—Experiments have for some time been made in Belgium for preserving wood by exhausting the air from the pores and filling them with liquid guttapercha. The guttapercha is liquefied by mixing it with paraffin and subjecting it to heat. Atter it is introduced into the pores it hardens as it becomes cold.

To Colour Brass.—The pieces to be operated on must first be slightly corroded by placing them for a minute or two in dilute sulphuric acid. They are next rubbed with sand and water, washed and dried. Brown of any shade is produced by dipping the pieces in some solution of a nitrate or in iron rerchloride. The shade depends on the concentration of the solution. A chocolate colour is obtained by roasting with moist red iron oxide and polishing with a small quantity of galena. Black brass for optical instruments is obtained by dipping the brass objects in a mixture consisting of solutions of gold or platinum chloride and stannic nitrate.—Metall Arbeiter.

G



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THE BEST DISINFECTANT.

Non-Poisonous. Colourless. Gives no Stain. Fragrant.

Fluid; Oil; Emulsion; Powder; Hard, Soft, Brown Windsor, and Toilet Soaps; Soap Powder; "Sanitas-Vaseline"; Veterinary Ointment; Tooth Powder; Toilet Powder; Toilet Fluid; Furniture Cream; Antiseptic Gauze: Fumigators.

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Liberal Terms, Show Cards, and Bills to the Trade.

Manufacturers, The "Sanitas" Co., Limited, Bethnal Green, E. C. T. KINGZETT, F.L.C., F.C.S., Managing Director.

MESSRS. ALLEN & HANBURY'S ADVTS (See pages 38 and 213.

DEE SEABURY & JOHNSON'S Advertisement of INDIA-RUBBER POROUS AND SPREAD PLASTERS on page 227.

HOMEOPATHIC MEDICINES.

Mother Tinctures, Pilules, Globules, Sugar of Milk, Medicine Chests and Cases, Bottles, Cardboard Goods, and all Sundries connected with the Homwopathic Business.

W. BUTCHER & CO.,

WHOLESALE AND EXPORT HOMEOPATHIC CHEMISTS, ♦

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SCHIEFFELIN & CO. See page 213.

PURE CRUSHED LINSEED

10s per cwt. net, bag included: in 7,14,28,36 ibs., 20s. pe cwt., ochvered free in London, and in 1 lb. Tins, 5s. per doz. BEST QUALITY; NO OIL EXTRACTED. Carefully cleared and ground so as to retain the natural colour of the Seed without being heated.

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In 7-lb., 14-lb., 28-lb., 56-lb. and 1-cwc, rags, 28s per cwt., net, bag included, delivered free in London.

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Finest powdered, 14s. per cwt; in 7,14,28,30 to. rackages, 10s., er cwt. net, bag included, delivered free in London. Samples post free.

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CARRIAGE PAID on Full and Empties.

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51 Berners Street, LONDON,

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Liverpool, Bristol, Derby, Glasgow, Sydney, & New York

TUSON'S DISINFECTANTS. See page 212.

WHERE can I get TRANSLATIONS done?

59 HOLBORN VIADUCT, LONDON, E.C.

TRANSLATIONS OF EVERY DESCRIPTION.

HAY'S SOLUBLE ESSENCE OF GINGER. See page 103

HAY'S GINGER CHAMPAGNE.

See page 96.

HAY'S SOLUBLE ESSENCE OF LEMON. See page 96.



THE LOCAL GOVERNMENT BOARD ON ADULTERATED DRUGS.

LAST month we quoted the remarks published by the Local Government Board in reference to the adulteration of drugs, as revealed by the reports of public analysts. From the official figures it would appear that throughout the country 304 specimens of drugs were examined, and that of these fifty were found to be adulterated. "The result," said the writer of the Government report, "is that a prescription eompounded with such drugs may fail altogether to produce the effect which would have been produced by drugs of proper quality;" and paragraphs went the round of the daily and other papers explaining to the public that about onesixth of the drugs sold were adulterated, and that one-sixth of the prescriptions dispensed were inaecurate. Among pharmacists answers to these unjust and damaging statements are obvious. First, the reports are probably in most eases the unchccked assertions of the analysts, and our experience of their accuracy in regard to drugs when cases have eome forward does not absolutely assure us of their infallibility. Next, it must be remembered that as a rule samples are not taken for analysis except in eases where adulteration is suspected. And, lastly, there is abundant reason to believe that in the majority of eases reported on the drugs were sold, not by chemists at all, but by groeers, hueksters, and others who dabble in common medicines. These furnish nearly all the cases we hear of; generally, when the analysts have tried at higher game they have been defeated.

We believed that it would be interesting, if possible, to get at the exact statistics, and we endeavoured to obtain these. As will be seen by the subjoined correspondence, details are not obtainable, but the negative answer of the Board is not without interest. The letters were as under:—

[From the Editor of The Chemist and Druggist to the Right Hon. the President of the Local Government Board.]

December 17, 1884.

SIR,—In the last-issued report of the Local Government Board, in the course of some comments on the analyses of drugs as returned by the public analysts in accordance with the Sale of Food and Drugs Act, an inference is drawn which is regarded by many chemists and druggists as an unfair and injurious one.

On this ground, I venture to ask if you will inform me, or give me the means of informing myself:—

- 1. In how many eases when drugs were reported a dulterated were proceedings taken ?
- 2. In how many cases were convictions obtained?
- 3. What were the drugs which were found adulterated?
 4. What proportion of these was obtained from registered chemists and druggists?

REPLY.

[From the Local Government Board to the Editor of THE CHEMIST AND DRUGGIST.]

December 24, 1884.

Sin,—I am directed by the Local Government Board to advert to your letter of the 17th instant, relative to the remarks in the Board's last Annual Report respecting the Analysis of Drugs as returned by the Public Analysts, and I am to state that the Reports received by the Board, heing copies of those made by the Public Analysts to the Authorities under whom they act, as a general rule specify merely the results of the analyses without giving information as to the persons from whom the samples were purchased, or as to any legal proceedings which may have followed. Statisties of the particular drugs examined have not been prepared, but the Board may refer you to the passages on this subject in their Annual Report for 1880-81, extracts from which are enclosed for your information.

In the report enclosed definite mention was made of cinchonine being substituted for quinine, sulphate of zinc for Epsom salts (probably due to a mistake), spirits of nitre (in which it was stated that a deficiency of nitrous ether might be sometimes due to the accidental escape of volatile spirits), and, lastly, paregoric without opium; and in this class of cases, said the Board, "which generally figures conspicuously in these returns, chemists are not the delinquents."

It is quite clear that the report of the Local Government Board, at any rate so far as this subject is concerned, has been written by some one who has no due sense of the responsibility of his statements. He has made a commentary without any facts to justify it, or, at least, he is not willing to produce his facts. It is to be hoped that the President of the Local Government Board will relegate his sensational assistant to one of the newspaper staffs (which he might adorn) or keep him rigorously to statistics when he next has to compile a departmental report.

FAILURES UNDER THE NEW BANKRUPTCY ACT.

The interesting statistics of failures compiled by Mr. Richard Seyd, F.S.S., which we print on another page, show results this year which that authority evidently thinks too good to be true. A sudden drop of the year's failures from 10,599 in 1883, to 4,394 in 1884, can hardly be the effect of a single piece of legislation, however wisely planned and skilfully carried out. Such is the general theory of economists, and they argue that the trouble and expense of bankruptcy proceedings under the new law are such that creditors are more

inclined than formerly to make private arrangements for the liquidation of their claims. Another statistical abstract of failures, compiled by the editors of Kemp's Mercantile Gazette, puts the total in the United Kingdom for 1884 at 5,098. We have no means of explaining the discrepancy, which does not say much for statistical science. From this source we learn that "the reduction is an apparent one only, because the slight improvement in the home trade during the past year may be eredited with a part of the reduction in the number of failures gazetted, and because it is well known that numerous failures have taken place during the past year which are not included in the above figures, private arrangements having been made with the creditors." "Kemp" then proceeds to give an approximate estimate of the number of these private arrangements, which is totalled at 2,590. No sort of indication is given as to the basis, if any, on which this calculation is made. The number of "private arrangements" made by chemists and druggists during the year is set down at 20.

We do not quite understand this outbreak of enmity to the new Bankruptcy Law. On the surface the expense does seem somewhat high, it is true, but the fees under the old law were the smallest part of the money wasted. The sole question to be resolved is, whether the creditors or the debtors are the most afraid of the Court. The investigation is now much more searching than it was formerly, and, on that ground, one would suppose reluctance to face it came from the debtor's side. If so, the new Act is clearly entitled to the credit of the reduction of failures, because it has transferred to creditors the whip which was formerly held by debtors. A private arrangement which satisfies all the creditors cannot be outrageously unfair; and no individual need be a party to such an arrangement unless he is satisfied.

We may add here the recorded list of failures of persons in the drug trade from 1877 to this date:—

	1877	1878	1879	1880	1881	1882	1883	1884
Wholesale chemists druggists, &c		41	30	18	17	9	35	11
Retail chemists, druggists	76	96	96	95	62	72	61	28

COMMERCIAL MUSEUMS.

The German Government proposes to establish in Berlin, and perhaps also in Frankfort, commercial museums on the model of one which has existed for several years in Brussels. It could hardly be a waste of public money if some such museums were founded in this country, and it may be that before long the desirability of such institutions will be recognised.

The Belgian Musée Commerciale is officially declared to have for its objects "the conveyance of information to our manufacturers and merchants eoncerning the markets of foreign eountries, and to facilitate commercial transactions with the consumers and producers of those countries; to fill in eommerce the place which mineralogical, geological, anatomical, and other collections occupy in the domain of the natural sciences; to furnish the means of practically studying export business; to arm the native producer against eompetition by showing him the particular goods preferred in this and that eountry, and in providing information respecting the channels and conditions regulating the sale of such goods."

The Museum consists chiefly of a collection of samples of manufactures obtained by the Belgian consuls, specially favoured in the countries where they respectively reside. As

far as possible the wholesale and the retail prices are given, and as much information is added as is accessible. Thus, for example, a Belgian kettle-maker can see the popular patterns of kettles bought in Peru, in China, in Zululand, or elsewhere; or, at any rate, such generally is the object of the Government in instituting this museum.

It can hardly be said that the eollection of samples is quite commensurate with the opportunities in the possession of the Government. The Museum has been in existence several years, but no group seems to be very abundantly represented, and some are extremely scanty. Fully three-fourths of the samples of manufactured goods shown are of British origin; and, indeed, the main purpose kept in view seems to have been to invite Belgian manufacturers to suck the brains of their competitors in this country. To promote this end there have been occasional "missions" to Birmingham and elsewhere to pick up samples.

The division included under the title of "Chemical Products" is curiously uninstructive. It emprises colours, candles, perfumery, soaps, and pharmaceutical products. named class could be earried away in a good-sized pocket. The Canadian consul sends little bottles containing ealomel; eitric, tartaric, oxalic, and acetic acids; and camphor. The eonsul at Shanghai supplies a few specimens of Eastern products, including oils of peppermint, cloves, canella, and camphor, and, as a curiosity, a sample of crude Japanese camplior; Mr. Von Heyden contributes a tin of salicylic acid, though, whether it is full or empty, does not appear; the eonsul at Bucharest has purchased a little bottle of castor oil of English origin, and three or four German dietetic preparations; from Puerto Caballo the consul sends two little bottles of a French "Extrait d'huile," which appears to be the romantic title of a coloured hair-oil; and a sample of bay rum from St. Thomas completes the information which is offered for the benefit of the Belgian drug-dealers.

Other departments of the Museum are a library containing numerous directories; a reading-room with a scratch assortment of technical journals, mostly English and American; an office where conditions of Government and other contracts, home and foreign, may be inspected; another where information as to freights may be obtained; and a room where illustrations of suitable packing, and (as it is aptly termed) the "toilet" of particular goods for particular markets are submitted. A weekly journal is published containing information from consuls and other sources, and announcements of contracts open, and the eatalogues of the Museum are made as instructive as possible. Everything is at the service of the public, and any information in the possession of the Museum authorities is most willingly given.

In this country there would, no doubt, be some objection to a museum which should show to all manufacturers what their fellow-countrymen were doing in foreign markets. But it would not seem an objectionable scheme to give English producers every possible assistance in meeting foreign competition, and an institution of some such character seems to be an almost necessary complement to our eostly consular service, if the latter is to yield its full profit to the nation.

COCAINE.

THE literature of the month contains abundant eonfirmations of the usefulness of this alkaloid in ophthalmic operations, and shows that its applications in surgery, and in many painful diseases where the seat of pain is near the surface are extending.

In dentistry, Mr. Oakley Cole found that a solution of the alkaloid in oil of clove relieved the pain of tooth extraction. Mr. Morton Smale, dental surgeon of Westminster Hospital,

says, however, that a 24-per-cent. solution has been quit valueless in his hands. Applied to the gum several times; intervals of some minutes, it has partially saved the patien the pain of adjusting the forceps, but the actual extractio involving as it does the fracture of the alveolus and the rupture of the vessels and nerve at the apical foramen, he been accompanied with the usual pain attending it. Applied to sensitive dentine, it is not at all certain in its action; and to an exposed, ulcerated, or inflamed pulp, not nearly; effectual as our old remedies, carbolic acid and creasote.

Dr. F. Moore, in a paper read before the N. Y. Coan Medical Society, says, on the other hand, cocaine hydr chlorate "will become of great benefit in dental operation and will take the place of laughing gas. By simply rubbin upon the gums or dropping into the tooth cavity, all sens tion is destroyed. I have cured cases of violent headacl by dropping cocaine into the eye, which influences nerveleading to brain centres."

In skin diseases, Dr. John V. Shoemaker states that I has employed liquid extract of coca for two years. In acu eczema of the ear and neck, marvellous improvement has resulted from local application of an ounce of fluid extract diluted with 3 ounces of water. In acne rosacea, an oin ment of the solid extract with lard exerts a marked sedativ action upon the irritated skin. Dr. T. C. Fox has obtaine good results in urticaria and lichen planus with a solution the hydrochlorate in cacao butter. Mr. Simeon Snell, of tl Sheffield General Infirmary, finds the effect of cocaine on the lealthy skin to be nil. A piece of lint soaked with a 20-pe eent. solution of cocaine, and covered with gutta-perel tissue, was placed on the front part of the fore-arm. Afte eighteen minutes the skin was still as sensitive as th surrounding parts.

In surgery of the urethra, Dr. Geo. Herschell, of Moorgat records a case of stricture, where the injection of a 4-per cent. solution of the hydrochlorate removed all sensitivenes and enabled an exploration to be made almost without pain. A second injection, retained for nearly half-an-hou enabled him to divide the stricture almost without pain t the patient. He suggests that the modern operation c lithotrity may be rendered almost painless.

Mr. Jas. Blamey, of Penryn, has found a suppository cortaining a grain of the pure alkaloid in cacao butter c wonderful efficacy in deadening the sensitiveness of th vagina, allowing digital examination, and the passage of th speculum with but little pain. He recommends as an in provement that two suppositories should be introduced, t cover the whole of the mucous tract, and that ten minute at least should be allowed for the suppositories to melt befor commencing to operate. Mr. J. Braxton Hieks, of Georg Street, Hanover Square, found that painting the entrance c the cervix uteri with a 10-per-cent. solution of the hydre chlorate entirely removed the pain of dividing the cervix and as completely relieved the spasm as if the patient has been under chloroform.

Mr. Simeon Snell found that a 2-per-cent solution deadenethe sensibility of a small polypus in the ear, and suggest that it may be useful in some forms of earache.

Hypodermically its effects have been further studied Messrs. Brock & Arkle, of University College Hospital, find that the anæsthetic area produced by subcutaneous injection of half a grain ean be trebled on the fore-arm by a bandage above the elbow, tight enough to compress the superficial veins. On the trunk a similar extension of the area is produced by compressing the soft parts with a glass ring. On the fore-arm, the duration of the anæsthesia was three quarters of an hour.

Mr. Lalande Haines, of Totnes, removed an epitheliom

from the lower lip of a patient aged 80, after injecting 3 minims of a 4-per-cent solution on each side. The patient "felt hardly anything at all."

Dr. Owen Pritchard performed the operation of circumcision after injecting 4 minims of a 4-per-cent. solution at four different points. The operation was quite painless. He had never performed this operation before without chloroform. As regards priority in the discovery of cocaine, samuel R. Percy repeats the claim he has previously made to the discovery of the alkaloid, and of its peculiar effects on the tongue. He states that in 1857 he read a paper on coca, and exhibited a sample of erythroxyline (the name he prefers), before the New York Academy of Medicine. This paper was not published. Three years later, Niemann announced the discovery of eocaine, when Dr. Percy reiterated his claim in Smith's Medical Times. He appears to have made no practical applications of the discovery.

PROPOSED NEW BY-LAWS OF THE PHARMACEUTICAL SOCIETY.

THE Council of the Pharmaceutical Society desire to modify some of their by-laws, in order to make certain changes which they regard as desirable, but which at present they have not the power to bring into operation. It may be of some interest to give a brief summary of the alterations proposed. First, in the preliminary clause, besides providing that "words importing the singular number shall include the plural number," and vice versa, they desire to add that "words importing the masculine shall include the feminine." This is suggestive of the growing power of our future mistresses, and may have a serious meaning for future generations. The next suggested alteration is to reduce the life-membership fee from tweaty guineas to ten guineas. Then it is proposed to create a body of corresponding members to be distinct from honorary members, instead of retaining the present group of "honorary and corresponding members." They next wish to take power to hold their monthly meetings "on or about the first Wednesday in every month," and at 11 a.m., " or at such other hour as they may decide," instead of being rigidly fixed to one day and hour. They have now power to appoint a special examiner or examiners to conduct any examination in the Latin language; they want that power not limited to any particular subject. Now comes the special object of the Council. They wish to get power to make very considerable alterations in regard to the qualifying examination. Their proposals are generally known, and have been before explained. They desire, for legal purposes, to describe what is now known as "the preliminary examination" as "the first or preliminary part of the examination." Then they want a requirement that three years have been passed in an open shop of a chemist and druggist after passing the preliminary part of the examination. A written examination in general and pharmaceutical chemistry is to follow, and this is to be held in a number of local centres. Then a year must elapse; the candidate must be twenty-one, and he must have attended courses of instruction in chemistry, botany, materia medica, and practical chemistry before he can be admitted to the final examination, which is to be oral and practical. The fees for the examinations, which are now two guineas for the preliminary and a further three guineas for the minor, are to be for the several parts three guineas, two guineas, and three guineas, or eight guineas in all, instead of five guineas as now; a further five guineas, as now, to be paid for the major examination. Lastly, the Council seeks power to make the modified examination after January 1, 1889, such an examination as the minor examination is now, and to charge candidates an advanced fee.

To get these altered by-laws enacted, they must be passed at three meetings of the Council, then by a special general meeting of the Society, and, lastly, they must be confirmed by the Privy Council. The latter body, as is wel! known, are advised on pharmaceutical matters by their own visitor, Dr. E. H. Greenhow, who has hitherto expressed himself as opposed to the enforcement of a curriculum. It is to be supposed that the Council have some reason to suppose that Dr. Greenhow has changed his mind on this subject, or they are surely taking a great deal of trouble to ensure certain defeat. Besides Dr. Greenhow, there is also in the way the possible danger that the by-laws they are proposing would elash with the Act of Parliament. It would appear that both they and their own legal advisers have some notion of this, but they appear to think the experiment worth trying, on much the same ground as those eandidates whom they so warmly condemn, who go up just to feel their way.

SYNONYMS.

In our issue for last February Mr. F. D. Delf suggested that an effort should be made to record the provincial names of drugs and medicines. He remarked that almost every county had a peculiar name, say, for blue ointment. He had seen many an assistant puzzled when asked for vitriolated tartar, sal enixon, blue butter, dulcified spirit of salts, sweet pepper, &c.

At the time we expressed our willingness to arrange and publish any lists of provincial words that might be sent to us. We regret very much that the matter seems to have dropped out of notice. No lists have reached us. The subject is of sufficient interest and importance to induce us to give it greater prominence, and to ask the earnest eo-operation of all intelligent readers to record permanently for the use of their fellow-druggists and for students of language all names in local use for drugs, medicines, and diseases.

It may not be known to all our readers that there is a strong society in existence called "The English Dialect Society," which has devoted considerable sums for several years to the publication of glossaries of all the English dialects. So much work has been done that its members are beginning to see the end of their labours. In the glossaries they have published there will be a few names that ought to be included in any dictionary of the English names of drugs.

To make the list scientifically and practically useful we urge our readers to note on paper all the names, not in the Pharmacopæia, by which they are asked for medicines or drugs, or other things that they sell. The name should be given, then the pronunciation, and the true name of the article sold for it; also, if it is a compound, the formula by which it is made.

In country districts an assistant may often be puzzled by the local names for diseases of men and beasts, for which remedies are wanted. It would be of eonsiderable practical use if all such names could be included in the lists sent us.

It is of great scientific interest to note exactly the eounties in which the names are used, and it will be best not to include any names not heard in daily life, but learned only from books.

On our part we undertake to classify all lists sent us, and to hunt up historical notices of such words as "vitrio-lated tartar," "sal enixon," and so on, that are survivals of the scientific nomenclature of past ages. Many words, as "strike," used in some places for solution of ammonia, probably originate from manufacturing processes. We invite suggestions as to the etymology of these.

We will also search the volumes published by the English Dialect Society for any contributions they may yield.

Our object is to endeavour to secure for the world in general, and our readers in particular, a good glossary of the English names of drugs and medicines and diseases in actual use. This is not an endless task. We make no attempt to compile a list of synonyms from books. This would be a Sisyphean labour, and when completed would be of little use.

To obtain approximate success we need real help from at least two or three men in each county, while we should not have too many if every one of our readers would help us.

Most chemists have had experience, and are familiar with local names in use, in more than one county. In such cases we ask them to note carefully where they heard each name, and if they cannot be quite certain to mark the district as doubtful.

We further ask that lists should not be withheld because they are short. Half-a-dozen names will be valuable.

We do not want such lists as we have published in the "Museum." These only show that many persons' spelling is weaker than their pronunciation, and are of no scientific or practical value whatever. They are sometimes very comical, but in other aspects are not worth the paper they are printed on.

We should be glad to receive lists as soon as possible. The arrangement of the words and the research needed to elucidate them will take much time, which will have to be found in the brief moments of journalistic leisure.

We need hardly say that any contributions from Australia, Canada, South Africa, the United States, and all other English-speaking places will be very interesting, and will be highly appreciated. In our Correspondence columns, p. 63, will be found the first instalment.

"A Londoner," writing to the *Times*, gives an account of a mysterious illness occurring to a member of his family, which after various investigations of drains and pipes was found to have been caused by arsenical paper in the patient's bedroom, whercupon Mr. B. Dyer writes to say that a Bill to render penal the sale of arsenical wall-papers is being prepared by a committee appointed by the National Health Society, and will be presented to Parliament during the approaching session. It is probable that the sale of such papers by others than registered chemists is penal already under the Pharmacy Act; but, however this may be, it will be preferable that a clause prohibiting the sale of arsenical papers should be included in the Government Sale of Poisons Bill than that it should have an Act to itself.

A sad story is told in the medical journals about a young surgeon in Vienna, who, having been charged with unskilful treatment of a wounded finger, was sentenced to repass his examinations. We cannot ascertain what body or court had the power to pass such a curious sentence, but, if justified by the circumstances, there is a good deal to be said in favour of such a power. Appeal was made, and the case was referred to the College of Physicians. Pending their judgment the young surgeon drowned himself. Then the College found he was in no sense to blame and acquitted him.

* *

Mr. Boverton Redwood will read a paper on the "Russian Petroleum Industry" to the Society of Chemical Industry, on February 2.

The Austrian examinations must be terribly severe.

In the New York *Pharm. Record*, Professor Bedford, the editor, gives a couple of anecdotes from the examination-room. One candidate, in reply to the question, "What is 'adeps'?" replied, "'Adeps' means neatness, accuracy, and despatch." Another, asked, "What would you do in ease a prescription had been wrongly dispensed and the patient's

life was endangered?" responded. "Go to Canada!" Tho narratives are possible; we have heard similar ones befor but judging from internal evidence, we reject the authentic of the following letter, which the professor claims to have received from a distant city:—Prof. Bedford I have had years experiens in a drug store and want to go to colege pharmicy. I saw one of the proffs and he said they wou have to give me a prelimanary examination in geograrithmatic and spelling before I could enter. As all t questions stumpd me I cant get in (I dont meen the one her and I want to try yours but before starting in I want to mif you ask questions like these. What is inverse rallogrithms rule for Rithmatical progreson lateud of Muse pop of Caro ary of Californe I think I passd on spelling they said that would do after trying me on a few hard on yours hopping you will anser quik.

* *

A general regulation has lately been issued by the Bot of Inland Revenue, respecting the sale of methylat spirits. Hitherto, no one selling intoxicants, including und the term retailers of bottled beers or bottled British win has been allowed to be licensed. According to this no regulation, under certain eonditions, the Board will persuch retailers to hold a license. Another part of this not regulation, makes a definite order that no person except cholding a "maker's licence," costing 10 guineas per annuland subjecting the holder to certain stringent condition may supply the article in other than retail quantities, that in quantities not exceeding 1 gallon. This will prevent to supply of the article generally by wholesale druggists whose to be able to print this regulation next month, it is somewhat difficult to obtain, as the Board "do resupply it to the general public."

* *

The Tribunal of Commerce of Brussels has lately decid a case similar to one that was tried in this country some the since, but the decision given is directly contrary to that the English courts. It appears that some English deale attempted to sell their extract of meat in Belgium as Bar Liebig's brand, placing a photograph of the late Baron Lieb on their jars, against the expressed will of the present Bar Liebig and the Liebig Company. By the Brussels court the are prohibited from either using the name Liebig, or the ti-Baron Liebig, or the photograph, the exclusive use of whi had been granted by Baron Liebig to the well-known Liebig Extract of Meat Company. This decision confirms a formone given in Paris in favour of Liebig's Company.

* *

The *Daily News*, in an article on the fashions, says that, the present moment, heliotrope is the correct perfume to u Its predecessors have been white rose, ylang-ylang, a opopanax.

The sweet spirit of nitre case, which we report from Shefield, suggests that the provisions of the Sale of Food a Drugs Aet may be amended in two important particula Sellers would be protected against their own want of jud ment in refusing a portion of the sample when offered by t purchaser, if it were made compulsory on the latter to lea a sealed sample with the former. And, again, it seems or reasonable to require that the summons should elearly ince ate in what particulars the article in respect of which it issued is not of the nature, substance, and quality demands. We understand that, in the instance referred to, the renature of the inferiority of the nitre did not transpire un the case came on for hearing in court.

* *

Another spirit of nitre case was down for hearing Durham for January 14, and was to be defended by the Chemists and Druggists' Trade Association, but the Somers House analysis being in favour of the defendant the prosecution was withdrawn. It would be cf interest to discove whether that case will be classified as one of the adulterated drugs in the next report of the Local Government Boar In other words, will the local analyst maintain his overpinion, or will be submit to the Somerset House report?

Among our provincial notes will be found a brief report of an quest at Weymouth. A young lady on three different dates urchased at three different chemists' 4s; 6d. bottles of chloodyne. A fortnight after the last purchase she was found neonscious, and died some hours later from the effects of an verdose of chlorodyne. This ease has been referred to in ome of the medical journals as another illustration of the angers of patent medicines, and it will soon figure in some etter to the Times as a sample of the 150,000 fatal eases per nnum which we have heard about lately. As a matter of act it proves nothing against patent medicines. The young uly had evidently set her mind on suicide, and she adopted hat she thought would be an easy method. Had she chosen ny other form of death there would have been no attack n the agent employed; but the opportunity of disgracing stent medicines, logically or illogically, is never missed.

* *

The struggle between the cutters and the full-price dealers in patent medicines in the United States still continues. It hay be remembered that what was known as the "Campion lan" was adopted in New York, and in many other large mentres. The proprietors and the wholesale dealers generally refered into a compact to supply no one who, after certain widence of his cutting propensities should be put on the cut-off 'list by a properly authorised committee. The regular scalpers, however, flourish still; where they get their applies is a mystery, but they seem to obtain all they want. The seems of the scheme, have lately been "cut-off." They assert that hey have in no respect violated the terms of the compact, at they decline to apply to be reinstated. Outside observers unnot believe in the possibility of thus artificially regulating rofits for any length of time.

* *

It appears, according to *Drinks*, that in some quarters the xeise officers have objected to the manufacture of aërated aters by brewers, unless the factories are separated by a rick wall. It would appear that this objection is a remmant f the old law, when the most scrupulous examination of very material capable of yielding alcohol was necessary in rder to protect the revenue from the malt tax. Under the resent law, which only taxes the produced beer, it does not sem clear what object the officers can have in separating the agar for lemonade from the malt for ale.

* 4

We note that a movement is on foot to make some proision for the family of the late Mr. Henry Watts, F.R.S.
n a recent issue we noted the fact of his death, and the
reat assistance he had given to the progress of chemistry in
his country by his translation of Gmelin's "Handbook of
hemistry," in 18 vols.; his great "Dictionary of Chemisty,"
nearly 9,700 pages; and his well-known edition of Fowne's
Manual." It is now stated that these and his other labours
lid not bring him much income, and that he was unable to
nake any provision for a delicate wife and numerous
hildren whom he left behind. Several of these have still
to be educated, and his widow is in ill-health, and unable to
lo anything for her own support. A committee has been
formed to raise a subscription, with Dr. Edmund Atkinson,
of Portesbery Hill, Chamberley, Surrey, as secretary, and
Dr. W. H. Perkin, the Chestnuts, Sudbury, Harrow, as
reasurer. A considerable sum has already been promised,
and it is possible that some of our readers may like to
contribute.

An Austrian contemporary reports on the authority of this journal that "Piesse's scented hair-oil composition" is composed of bergamot oil, 4; lemon cil, 2; and clove oil, 1 part. The information seems to have been obtained from a formula for hair-oil perfume in our correspondence page. The paragraph must convey the impression that chemists have a large number of Roman Emperors among their customers. This is the formula given in Pharm. Zeit. f. Russland for "Whisky (Scotch beverage)":—"Boil 15 grammes of tea in 1 litre of water, strain, and add 600 to 700 grammes of sugar, the juice of two lemons, and 6 litres of red wine. Heat, but not to the boiling-point."

The pharmaciens of Brussels have resolved to receive the sixth International Pharmaceutical Congress in that city about the end of August or the beginning of September. The King has accepted the "high protectorship" of the Congress, and the Mjuister of the Inferior and the Burgomaster of Brussels have consented to be nominated as honorary presidents. Messrs. Van Bastelaer and v. d. Vyvere are entrusted with the arrangements. The Universal Pharmacopæia is naturally to be one of the subjects of discussion, and the question of pharmaceutical education, and in connection therewith the position of the pharmacist as food analyst, is also proposed.



Viterury Notes.

The Life and Works of Thomas Graham, D.C.L., F.R.S. Illustrated by sixty-four unpublished letters. Prepared for the Graham Lecture Committee of the Glasgow Philosophical Society by Dr. R. Angus Smith, F.R.S. Edited by J. J. Coleman, F.I.C. Glasgow: John Smith & Sons. Pp. 114.

GLASGOW has good reason to be proud of Thomas Graham, who will certainly stand forth in the scientific history of this century as one of its most thoughtful and philosophical chemists. Though his name is not associated with any of the great material advances of modern times, his works. begun as a very young man and continued with patient persistence throughout his life, are highly appreciated by ehemists, and have greatly tended to a clearer insight into the marvellous laws which seem to govern the constitution of matter. Dalton's clear presentation of the atomic theory was, as it were, refined, and rendered philosophically more acceptable, by Graham's more subtle views and convincing experiments. In the little book just published by the President of the Glasgow Philosophical Society. which is due, however, mainly to the affectionate respect of the late Dr. Augus Smith, there is just so much of a sketch of Graham's life and work as to give some idea of both, but there is hardly enough to justify the title. The sixty-four letters show him from his student life at Edinburgh, as a young man with a clear head, with plenty of ambition, and with a very respectful estimate of his own abilities, down to his life in London, when, as Master of the Mint, he occupied a high position in science and society. however, have no intrinsic interest, and do not supplement Graham's reputation. To these are added a very few pages summarising Graham's prosperous but not very eventful life, and then Dr. Smith gives a series of outlines of the scientific papers in which Graham's investigations are recorded. This is a useful, but not a particularly sparkling, piece of literature. In an appendix is reprinted some critical remarks by Dr. Angus Smith, showing the history of the atomic theory and exhibiting Graham's contributions thereto.

Der Kaffee in seinen Beziehungen zum Leben (Cossee, in its relations to Life). By Dr. Heinrich Boehnke-Reich. Leipzig: F. Theil.

This is a book written to eelebrate the two-hundredth anniversary of the introduction of eoffee into Austria and Germany. With a great deal of industry the author has collected all that is interesting concerning the history, the chemistry, the botany, the medicinal value, and the dietetic nature of coffee, together with much information regarding its commerce, the substitutes and combinations which it has called forth, and the various methods of preparing it as a beverage. Readers of German will find all this presented in a pleasant style. The facts given concerning England seem to indicate accuracy and wide information. For example, the details of the seizure of the Conroy malt coffee on the part of the Excise and the subsequent modification of the law affecting coffee-mixtures are related with exactinde.

Dental Caries. A series of papers reprinted from the Journal of the British Dental Association. By Henry Sewill, M.R.C.S., L.D.S. London: Baillière, Tindal & Co. Pp. 66.

In a moderately brief essay Mr. Sewill expounds the most reliable modern views in regard to dental caries. The chief investigators agree that dental caries is entirely an effect produced by external agents, and is in no sense a result of inflammatory or vital action of any sort, and, therefore, that it cannot be said strictly to have any "pathology" at all. It can be induced in dead teeth just as well as in the natural teeth in their ordinary condition of growth. It is now established that abnormal secretions and accretions in contact with the teeth cause an accumulation of acid, attacking first the enamel and penetrating to the dentine, when fungoid growth follows and occasions more rapid disintegration than would be the case under the influence of acid alone. The prevention of caries, it would seem, therefore, must be mainly a mechanical treatment, consisting chiefly in the careful use of toothpick and the toothbrush. Mr. Sewill recommends as a useful antiseptie tooth powder one containing—

Castile soap 2 drachms Powdered orris ... doz. ٠. .. 2 drachms Precipitated chalk 2 oz. ٠. •• Carbolic acid .. 36 drops Eucalyptus oil .. 30 to 60 drops

Where an antiseptic mouth-wash is needed, Mr. Sewill prescribes the use of perchloride of mercury in the following form:—One grain of the perchloride and 1 grain of chloride of ammonium to be dissolved in 1 oz. of eau de Cologne or tincture of lemons, and a teaspoonful of the solution to be mixed with two-thirds of a wineglassful of water, making a proportion of about 1 of perchloride in 5,000 parts.

The Compendious Calculator. By Daniel O'Gorman. Corrected and extended by J. R. Young. Revised by C. Norris. London: Crosby Lockwood & Co. Twenty-sixth edition. Pp. 221.

It appears from the preface that the previous twenty-five editions of this work have been published under the title of "Intuitive Calculations." The object is to give short methods of working, mentally or otherwise, calculations adapted to various trades. The calculations given apply to all sorts of weights and measurements, as well as to interest, discount, and money calculations. We should have supposed that most persons would have been familiar with the rules for multiplying or dividing the weights or measures which specially apply to their particular businesses, and we certainly find nothing in this book which would be likely to be found novel by the well-instructed chemist and druggist, though it contains a few pages of calculations specially adapted to troy weights. But the fact that it has been found profitable to republish it twenty-six times seems to suggest some occult value in the work which perhaps compensates for the labour of its compilation, which must have been very heavy.

Nursery Hygiene. By Boyd Burnett Joll, M.B. London: H. Kimpton. Pp. 109.

THE Registrar-General tells us that about 40 per cent. of the eccorded deaths in this country are those of children under five years of agc. This is an appalling fact, and suggests that much remains to be done in the way of instilling hygienic information into the minds of parents. Many books with such a purpose have been published, but it is to be feared they do not find their way into the quarters where they are specially required. In this treatise there is nothing particularly novel, but it is clear and sound in its teaching, and contains excellent advice concerning the diet, clothing, exercise, and general sanitation of children, with some special, though rather vague, chapters on preventable and infectious diseases and on the troubles of dentition. The recommendation to send for the doctor is kept always prominent, and the usual attack on patent medicines is included; but it should be admitted that the author is rather singularly amiable towards

the chemist, as is evidenced by a remark on page 100: "Calomel and other powerful purgatives, and all such strong remedies, which none but the doctor or chemist should permitted to dispense or administer."

Aids to Long Life. By Nathaniel E. Davies, L.R.C.P. Londo Chatto & Windus. Pp. 292.

This is another of a series of cheap and popular treatises I the same author and publishers, in which useful medic advice is given in an easily assimilable form. In this volut the general idea is to indicate the gradual decay of life, at to suggest the best means of preventing the insidious dange which await the human family in the progress from mide to old age.

Materia Medica: Physiological and Applied. Vol. I. Londo Trübner & Co.

This volume is certainly the most extraordinary treatise materia medica in our library. The general fault we have find with new works on materia medica is that they more less slavishly reproduce the style, arrangement, and deta of their predecessors in the same field. This work is, least, free from that blemish. It is a new and very elabora commencement of a complete encyclopædia of homeopath investigation. This first volume contains 726 large pag and only covers six medicines. A contemplation of the copleted work throws us into much the same frame of mind that once described by Saint John.

There are, we understand, several works on materia medibeing submitted to the homeopathic world at this tin Hahnemann's original work has naturally been supersede and Jahr's, which for so many years reigned in its stead, felt to be insufficient. A work called Allen's "Encyclopædi has recently appeared, we believe, in America, and in the country Dr. Hughes has commenced the editorship of anoth important treatise, entitled the "Cyclopædia of Drug Pathgenesy." Both of these works are the sifted collections the labours of all investigators in homeopathic therapeuti. In the volume before us there does not seem to be a definite scheme to be carried through. The articles a monographs on the medicines treated. If a sufficient dema exist, a further half-dozen monographs will be brought for ward, and so on, probably far into next century.

The subjects treated are Aconitum, by R. E. Dudgeon, M.I. Crotalus (the venom of the rattlesnake), by J. W. Heward, M.D.; Kali Bichromicum, by J. J. Drysdale, M.I. Digitalis, Nux Vonica, and Plumbum, all by the late Black, M.D., whose articles have been edited by

Hughes, M.D.

medicines.

In these articles the history, chemistry, botany, and gener information concerning the drugs named are not neglecte but they are presented by the various authors in differe degrees of completeness. In some instances the pharmace tical information is scarcely brought up to the latest da For homoeopaths, naturally, the symptomology of t medicine is the all-important section. The labour which tauthors have given to this subject, labour which can nov be remunerative, and which must have been extreme tedious, is simply marvellous. The homocopathic theo being granted, the value of these collections of observatio is incalculable. They prove at least the good faith of t labourers. Under aconite, for instance, besides the gener sections already referred to, a list of monographs on aconi and its alkaloid is given, then a chapter summarising i general and special actions on the various organs and fun tions of the body. These are followed by careful accoun of 75 medically reported cases of aconite poisoning, 4 poisoning by aconitine, 30 aconite, and 6 aconitine proving The recorded symptoms, numbering 2,254, are then reduce from these cases and classified; the therapeutic uses are di cussed, and a collection of clinical records of aconite cure with references to the reports, winds up the subject. somewhat similar plan is followed in regard to the oth-

Such is the general scheme of the work. A few work must be devoted to the very able introduction, which signed by J. J. Drysdale, R. E. Dudgeon, J. W. Hayward, ar R. Hughes. The authors indicate that they aim not only t prove the law of cure, which they claim is the deduction

bservation, that is, in their words, that "morbid states are cured by drugs which produce their pathological simile on he healthy body," but they further aim to present something ike a philosophy of the theory. We despair of giving their views in a few words, and very long quotations would be necessary to do them justice; but if may be possible to give a vague idea of their argument. They regard it as proved hat certain drugs have specific action on specific organs. This action is made up of a group of symptoms which are the similes of certain pathological states. Thus aconite proluces its peculiar neuralgia in the trigeminus only; aloes as purgative affects the larger intestine only; atropia will dry he mouth and throat whether injected subcutaneously or wallowed; and so on. The pathological action or its simile s the effect of exalted action on the protoplasm, first over stimulating, and then eausing a corresponding depression. Now, the theory, if we understand it aright, as set forth in his not easy-reading essay, is that the pathological action, laving reached the second stage, the action of the drug, if t can be administered at just the right time and in just the ight dose, will necessarily so modify the minus action of he disease as to eheck the degenerative tendency which has been set up. The art of the physician will therefore consist (1) in detecting the primary symptoms of the lisease, (2) in selecting the proper modifying simile, and 3) in judging accurately the dose.

We must add that our attempted indication of the argunent of this remarkable essay is but exceedingly vague. To hose interested it is worth studying, if only on account of he scholarly way in which the subject is discussed.

Pharmaceutical Synonyms: being a Collection of the Various Synonymous Names of the Chemicals, Preparations, &e., contained in the British Pharmacepæia, for Dispensiny and Counter Reference. By W. E. Pritchett and W. Cole, A.P.S. Published by the authors at 114 High Street, West Cowes, Isle of Wight. Price 1s.

This is a little book of thirty-six pages, of which the elabotate title-page is a fair description. It will be noted that it leals with articles contained in the British Pharmacopocia only, and that even within those limits it does not claim completeness. In their preface the authors say they "have selected only those synonymous names which are more commonly met with in dispensing and at the counter. They have avoided introducing many which are both ancient and obselete, as, by their insertion, the concise nature of the work would have been destroyed, and its utility as a book for speedy reference greatly lessened." Surely the wish is the father to this last idea!

The slim little book is divided into two parts, the first giving the official Latin name, English name, and synonyms; the second the synonym and official Latin name. The great lifficulty and danger of authors of such works is the selection. Our common experience of books of reference is that what we want to know is never to be found. It is the uncommon and less known that is most important.

We can hardly avoid comparing the present list with that published in The Chemists' and Druggists' Diary for 1878, with which the authors seem not to be acquainted. Both lists err by omission, but the Diary list contains just 1,200, the present one 400 in the section where the synonym is given followed by the correct name, which is the only part comparable with the former.

Many of the names included in the present list are the English equivalents given in the Pharmacopœia. Others seem to be too generally known to be worth inclusion, though this is an error in the right direction. The list in the Diary remains the best of the kind hitherto published, although this little book supplements it in many particulars and is much easier to get.

We notice that in spite of public analysts and prosecutions the authors define milk of sulphur as "sulphur præcipitatum," and sweet spirit of nitre as "spiritus ætheris nitrosi." Those heroie champions who have spent braius and treasure to force analysts to pass milk of sulphur containing a kind of gypsum and sweet spirit of nitre sp. gr. 850 may well sigh "Such is fame!"

The editorial management of the *Pharmacist*, of Chicago, is transferred this year from Mr. Robert H. Cowdrey to Dr. Oscar Oldberg, the Professor of Pharmacy in the Chicago College of Pharmacy.

THE YEAR-BOOK OF PHARMACY FOR 1884 has just appeared. It contains eleven pages more of text, and otherwise presents its usual good characteristics. By the nature of the work, the information it contains must be six months old, and previously published. But, as a record of progress and work of reference, such books are very valuable, while it is instructive to see together the articles on any subject that have been scattered throughout the periodical literature of the year. The newly-elected colonial members have the post of honour in the register, and make a new departure, on which we congratulate the committee.

Messrs. Longmans, Green & Co. are re-issuing Quain's "Dictionary of Medieine," in six monthly divisions at 5s. cach. On the issue of the sixth division, cloth cases will be obtainable for binding the work in either one volume or two at moderate prices. The part now issued contains 304 pages, carrying the work to "Co-ordination." The paper on which it is printed is apparently a trifle inferior, but otherwise this reprint is identical with the original work. The success of this enterprise has been astounding. In July last nine reprints had been issued by the publishers in England and seven in America, and there is no doubt that in its present form it will be very acceptable to persons who could not afford the original form.

THE fourth part of *Drugs and Medicines of North America*, Messrs. J. W. & C. G. Lloyd's quarterly publication, continues from part three (which has not reached us) the history of the alkaloids of *Hydrastis Canadensis*. The whole of the part is devoted to this subject, which is still left incomplete. As we have remarked before, the authors seem to leave absolutely nothing to be gle ned from published records. They bring forward much new matter, and provide for all their successors a fair starting point. The history of this particular drug abounds in rediscoveries of what was already partly known, and illustrates the waste of labour caused by imperfect information. Those who consult this work will have only themselves to blame if they embark on such useless investigations.

Mr. George J. Seabury has sent us a print of a paper on the "Present and Retrospective Trade Relations of Manufacturer, Wholesaler, and Retailer, and a Glimpse at the Future of the Drug Trade." This was prepared for the meeting of the National Retail Drug Association at St. Louis, but was withdrawn, somewhat against the wish of those present, owing to want of time. Mr. Seabury has worked long and energetically in the interests of fair profits to retailer and wholesaler. From his secure position as a manufacturer, taken up fifteen years ago when his advanced opinions earned him the reputation of an eccentric visionary, he has done more for his customers than most would have felt inclined He believes strongly in union among all branches of the trade to stamp out unfair competition, and preaches this at every opportunity. From the figures given in the paper it would appear that his ideas have been put to large practical applications with beneficial results. It is to be hoped that the advantage may prove permanent, and restore something of "the pleasure and profit" of the drug business.

MESSRS. WOLFF & SONS, the pencil-makers, now preserve the shavings and dust of the cedar wood used in their manufacture, and sell it as "dust of Lebanon," for sprinkling on the fire to remove the unpleasant smell of cooking in a room after a meal.

As a Test of Glue the *Tischler Zeitung* has given the following:—"Carefully weigh a piece and suspend it in water, at a temperature not exceeding 10° C. to 50° Fahr., during 24 hours. The colouring matter is then precipitated, and the glue swells in consequence of the absorption of water. On removing the glue from the water, the increase in weight will be found to be in proportion to the quality. The weight of the colouring matter can also be ascertained by weighing the glue a second time after it has been thoroughly dried."—From the *Jeweller and Metal Worker*.

Scientific Notes:

On Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected, and Translated.

THALLINE.

In the Archiv der Pharmacie, Nov., 1884, Dr. Vulpius, reports upon the above substance, which is another new pyretic of the chinoline group, the sulphate and tartrate of which are being introduced by the Bavarian Aniline and Soda Works in Ludwigshafen on the Rhine. Thalline may be chemically expressed as tetra-hydro-methyl-oxy-chinoline, and has the formula C9H6.H4N(O.CH3). Both the sulphate and tartrate eome into the market in the form of a white crystalline powder, which is seen under the microscope to consist of minute columns. The sulphate has a peculiar aromatic smell resembling anise oil, while the tartrate smells of cumarine. In the concentrated state their solutions have a sharp, bitter, and saline taste, which, however, becomes more palatable on dilution. Both salts are conveniently soluble in water, more especially the sulphate, but are not very readily dissolved by alcohol, the sulphate requiring 100 parts of this menstrumm and the tartrate considerably more. The thalline salts give a characteristic reaction with iron chloride: 5 c.c. of an aqueous solution of a thalline salt in the concentration of 1: 10,000 yielding a bright emeraldgreen coloration with a single drop of ferric chloride, and this colour is not destroyed by the addition of a drop of concentrated sulphuric acid, nor is it taken up by either ether, chloroform, or benzine. Other oxidising agents likewise produce a green coloration with thalline salts, and it is to the readiness of the latter to form green compounds that the namé "thalline" is due.

LIQUOR FERRI OXYCHLORATI.*

ACCORDING to the German Pharmacopæia, this substance is prepared by mixing freshly-precipitated hydrated iron oxide, Fe₂(OH)₆, with a small quantity of hydrochloric acid, allowing the whole to stand for three days, and then gently heating till complete solution is effected. The hydrochloric acid first forms with a part of the hydrate, iron chloride, which then reacts on the remaining hydrate to form the above basic chloride. Wilh. Weber, apothecary in Lich, therefore suggests, as more rational, the direct employment of ferric chloride in the place of hydrochloric acid, and states that he has obtained a faultless preparation in this way.

ASARON.

The essential oil of $Asarum\ Europæum\ contains\ 1$ per cent. of an odourless kind of camphor—asaron $C_8H_{10}O_2$ —which is possessed of remarkable phosphorescent properties, and admits of distillation in small quantities without undergoing decomposition; it is slightly soluble in boiling water, but readily so in alcohol, ether, chloroform, and petroleum-ether.

ARTIFICIAL IVORY.

CAUSTIC LIME, 420 parts; aluminium acetate, 150 parts; alum, 50 parts; gypsum, 1,200 parts; and oil, 100 parts, are kneaded up with a solution consisting either of casein 200 parts, ammonia 50 parts, and water 400 parts, or of albu-200 parts, and water 400 parts, and water 400 parts, or or anomen 450 and water 400 parts (when dark-coloured objects are required, from 75 to 100 parts of tannin replace the aluminium sulphate), The mass is made into slabs and dried, and then submitted to a strong pressure in hot moulds. The objects are finally placed in a bath consisting of water 100 parts, white glue 1 part, and phosphoric acid 10 parts, whereappen they are dried polished and larguered 10 parts, whereupon they are dried, polished, and lacquered with shellac.

Ivory thus made is said to be very durable.

* Archiv der Pharmacie, November, 1884. † Berichte der deutschen chemischen Gesellschaft, xvii. Jahrgang. ‡ Chemiker Zeitung, November 23, 1884.

PHARMACOPŒIA CHARACTERS AND TESTS FOR ANTIPYRI CANNABINE TANNATE, COCAINE HYDROCHLORATE, AL PARALDEHYDE.

The German Pharmacopæia Commission have proposed t four above mentioned preparations for admission into t next Pharmacopæia, and, considering their utility, ha already framed and published in the Archiv der Pharmac December, 1884, the subjoined Pharmacopæia characters a tests for them.

Antipyrinum.

A NEARLY white crystalline powder, or in colourless colum nearly odourless, and of a mild, bitter taste. It melts 100° C.-111° C. It is soluble in less than its weight of co water, in equal parts of chloroform, in about equal parts alcohol, and in 50 parts of ether.

An aqueous solution (1:100) yields a copious wh precipitate with a solution of tannic acid. Two c.c. of t solution are turned green by the addition of two drops fuming nitric acid, the colour changing to red when heat and a further drop of nitric acid added. Two c.c. of weaker solution (1:1,000) produce a deep red colorat with a drop of a solution of ferric culoride, which, on t addition of 10 drops of concentrated sulphuric acid, pass over into a bright yellow.

The aqueous solution (1:2) should be neutral, colourle or pale yellow, free from any sharp taste, and should not

altered by sulphuretted hydrogen.

Cannabinum Tannicum.

An amorphous, yellowish, or greyish brown powder, smell of hemp, and of a bitter astringent taste. Heated on a pi of platinum foil, it swells up very considerably, and, at complete combustion, leaves behind a trace of white ash. is but sparingly soluble in water, alcohol, and ether; read; soluble, however, in hot water acidulated with hydrochlo acid or in cold spirit of wine, likewise acidulated. 01 shaken up with a drop of a solution of ferric chloride caus blackish blue coloration. Its solution is very dilute, a warm hydrochloric acid yields, when cold, a filtrate, in wh alkalies produce a white precipitate, and which, when mix with a solution of iodine, turns muddy brown. Shaken with a solution of caustic soda and ether, cannabine tann yields to the latter a narcotic-smelling alkaline substan, which remains behind when the ether has been evaporate

Cannabine tannate should have no narcotic smell: wh incinerated on a piece of platinum foil it should not les more than 0.1 per cent. of ash. It should dissolve withou residue in 10 parts of spirit of wine, acidulated with 10 cent. of hydrochloric acid.

Requires careful storing.

1.0 g. Maximal single dose ... 2.0 g. " daily " ..

Cocainum Hydrochloricum.

A WHITE crystalline powder of a weak acid reaction al slightly bitter taste, which produces a characteristic trsient anasthesia of the nerves of the tongue. It is eas soluble in water and in alcohol. It is likewise dissolved nitric, hydrochloric, and sulphuric acids, the latter causing frothing. A solution of iodine produces in its aqueous sctions a brownish red precipitate; the caustic alkalies prodes a white crystalline precipitate difficultly soluble in water, b easily so in alcohol and ether.

Incinerated on a piece of platinum foil, cocaine hydchlorate should leave no residue; it should be soluble with \$ residue in double its weight of cold water, and should impt

no coloration to mineral acids.

Paraldehydum.

A CLEAR colourless liquid with a neutral or slightly al reaction, of a peculiar ethereal but not penetrating smell, and a burning and then cooling taste. It has a specific grave of 0 992_0 998. At low temperatures it solidities to a crystline mass, which melts at $+10.5^{\circ}$ C. It boils at 123° - 125° C. It is soluble in 8 times its weight of water 13° C., and in $8\frac{1}{2}$ times its weight at 15° C. It is so miscible in all proportions with other and alcohol. aqueous solutions become cloudy when heated.

Paraldehyde solidified by cold should remelt at + 10ch

Mixed with 10 parts of water it should yield a clear solution without separation of any oily drops on the surface. A mixture of 1 c.c. paraldehyde, to which a drop of a normal solution of potash has been added, should show no acid reaction.

To be kept out of contact with light. Maximal and diurnal dose, 5.0 g.

AN ELECTRIC FURNACE.*

THE Electrotechnische Rundschau states that an electric furnace, in which the heat was produced by inserting a nonconductor between the positive and negative wires, through which a powerful current from a dynamo machine was passing, was found to melt platinum as easily as iron, or in point of fact more easily, since the furnace melted 3 kilos. of iron n 20 minutes, and 4 kilos. of platinum in 15 minutes.

The experiments with the electric furnace have shown that he proportion of metal melted within a given space of time s dependent on the number of degrees of temperature which ie between the melting and the evaporating point of the netal in question, as well as on its conductive-power, for which reason the amount of force being equal, platinum nelts by electricity easier and sooner than steel.

The immediate introduction of the melting force into he substance to be melted, instead, as in ordinary furnaces, rom outside, will be an advantage easily recognisable.

A UNIVERSAL LACQUER,†

vhich is equally good for paper, metal, wood, glass, &c., and which admits of being coloured with any aniline dye soluble a alcohol, is, according to *Oel und Fett Industrie*, prepared is follows:—

Bleached shellac, 60 g.; Manila copal (freshly powdered), 30 g.; and gum mastic, 60 g., is mixed with 1 kg. of alcohol of 92 to 95 per cent., a small quantity of coarsely-powdered class added, and the whole left to stand for eight to fourteen lays, frequently shaking; 1 g. of boracic acid is then added, and the mixture filtered.

THE PRESERVATION OF CHLOROFORM.

M. Regnauld made a communication to the Société de Biologie, on November 15, 1884, describing his experiments in regard to the spontaneous decomposition of pure chloroform. In 1867–68 papers published in Germany stated that absolutely pure chloroform was decomposed in contact with the air and if under the influence of direct light. In 1877 M. Personne published a different opinion. In his view the decomposition was due to the presence of chloral, which gave rise spontaneously to vapeurs of chloride of carbonyle (phosgene gas, C₄O₂Cl₂). In editing Soubeiran's "Treatise of Pharmacy," M. Regnauld had himself adopted this theory. He now retracts the opinion then expressed.

Perfectly pure chloroform, which in preparation has been protected from solar radiation, has been exposed to light. In July decomposition occurred in two days, and in December in five days. The products of decomposition were chlorine,

phosgene, and hydrochloric acid.

In contact with the air, but protected from solar radiation, the same ehloroform has remained pure for fifteen months. So, also, submitted alternately to diffused light and direct radiation, it has been preserved during the same period pure in an atmosphere of nitrogen, quite free from oxygen.

Chloral, therefore, has no part in the decomposition, and it is evident, too, that pure chloroform can only be preserved under conditions which cannot be ensured in practice.

But M. Regnauld has found that the addition of certain compounds will ensure its preservation. Chief of these is ethylic aleohol. The action of this addition, asserted first by Rump, then denied by Personne, is now verified by M. Regnauld. He finds that one-thousandth part of pure anhydrous ethylic alcohol suffices to preserve chloroform. Methylic and amylic alcohol have a similar power, but must be used in ten times the proportion of ethylic alcohol to produce a similar effect. Ordinary ether and acetic ether seem about equal to ethylic ether. Benzene seems to have no

preservative power, but its superior homologue, toluene, acts almost as well as alcohol.

[M. Regnauld's observations are not new. An article by Dr. Inglis Clarke in this journal in March, 1882, states the essential facts very definitely. The interest of this paper consists only in the fact that it confirms the conclusions which manufacturers have long ago arrived at, and which have been disputed at times by theorists.

KERATINISED PILLS.*

For the internal application of medicines which it is desired shall exert their action in the small intestine, but pass the stomach unaltered, Dr. Unna recommends the employment of pills coated with keratine.

Keratine is prepared by treating horn-turner's chips with pepsine acidulated with hydrochloric acid, digesting the residue which remains with ammonia or with acetic acid until dissolved, which requires some weeks, and finally evaporating the ammonia or acid. The keratine or keratine acetate remains behind as a mucilaginous liquid, in which state it is used for coating the pills. On drying, it forms bright yellow vitreous scales, for which reason the finished pills have a glass-like coating.

Kreatine is insoluble in the gastric juice, and in all acids with the exception of citric and acetic acids. It is, however, readily soluble in the alkaline juice of the small intestine. Hence its utility for the above mentioned purpose.

In preparing the pills to be coated with keratine, it is desirable to avoid moisture, for which reason Dr. Unna rubs up the medicament with licorice powder or charcoal, adds a few drops of almond oil, and finally makes up the mass with cocca butter, whereupon they are consecutively coated and dried two or three times with keratine or keratine acetate. The ammoniacal solution of keratine is practically the best, since it dries quicker; but where a trace of ammonia might injure the medicament, keratine acetate must be used.

SILVERING GLASS.

MR. NORMAN LOCKYER, F.R.S., gives the following simple method as a note to the report of his Cantor Lecture, delivered by him on "some new optical instruments," published in the Journal of the Society of Arts:—

"Prepare two solutions.

"1. Argentic nitrate is dissolved in distilled water, and ammonia is added to the solution till the precipitate first thrown down is almost entirely redissolved. The solution is filtered and diluted, so that 100 cc. contain one gramme of argentic nitrate.

"2. Two grammes of argentic nitrate are dissolved in a little distilled water and poured into a litre of boiling distilled water. 1.66 gramme of Rochelle salt is added, and the mixture boiled for a short time, till the precipitate contained

in it becomes grey; it is then filtered hot.

"The glass having been thoroughly cleaned with (1) nitric acid, (2) water, (3) caustic potash, (4) water, (5) alcohol, and lastly distilled water, is to be placed in a clean glass or poreelain vessel, the side to be silvered being placed uppermost. Equal quantities of the two solutions are then to be mixed and poured in so as to cover the glass. This should be done while the glass is still wet with distilled water. In about an hour the silvering will be completed. Then pour off the exhausted liquid, earefully remove glass, wash it in clean water, rub off silver deposited where not required, allow to dry. The time required for the operation depends on temperature. If the solutions be warmed to about 30° C. the silver is deposited in a few minutes; but it is safer to use them cold."

^{*} Through the Chemiker Zeitung, November 23, 1884.
† Through Pharmaceutische Post, November 1, 1884.

^{*} Fortschritte der Medicin: through the Pharmaceutische Centralhalle December 4, 1834.

Miscellancous Formula.

MIXTURE FOR CHAPPED HANDS. (DR. WILSON.)-

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A very minute quantity is smeared upon the hands three times a day, provided the skin is not broken.—Drug Circular.

GUM FOR ADHESIVE LABELS.—Dextrine, 2 parts; water, 5 parts; acetic acid, 1 part; dissolve by aid of heat and add 1 part alcohol.

SWIFT'S SYPHILITIC SPECIFIC.—Stearns' New Idea quotes from a medical journal the following, written by B. I. A. Cull, M.D., of Camilla, Ga.: - "This preparation (S. S. S.) I have used, and have known it used years before Swift was It was first brought to notice by a Georgia M.D., who got it direct from the Florida Indian chief, "Billy-bow-legs," now and for many years living west of the Mississippi river, many miles from his happy hunting-grounds. The Georgia M.D. used it many years in an extensive practice, and he stated to me when he gave it to me that he never knew a single case it did not cure. I have used it in a great number of cases since 1856, and have not failed in a single instance in curing every case, both primary and constitutional, that I have treated with the remedy. It is cheap, and but little trouble to obtain it, and I assure my medical brethren that it will pay them to use it; besides, it is sure and a safe remedy, being altogether harmless.

Bruise the grey-beard and sumac roots, and put them with the sarsaparilla in an irou pot sufficient to hold 8 gallons of water, or cover the roots completely with the water. Cover the pot with pine tops, and boil slowly until the liquid assumes the colour of ink. Strain while warm, add the sulphate of copper and good Holland gin q. s. to prevent fermentation.

Sig.: One wineglassful four times a day. Strictly abstain from horseback riding, butter or very greasy food all kinds of spirits or fermented liquors. Of course the chancre must be treated in the usual manner.

THREE COLOURS IN ONE SHOW-BOTTLE.—For bottom layer glycerin may be used, or colourless glucose syrup, or any other colourless liquid of high specific gravity. These may be coloured by chromic acid, picric acid, indigo blue, earamel, or some aniline colour. The middle layer may be water, for the colouring of which any water-soluble colour may be chosen. The kind of colour depends upon individual fancy. For top layer oil of turpentine or naphtha may be selected. But it should be remembered that both of these liquids and their vapour are highly inflammable, hence the elose proximity of a gaslight, as is customary with showbottles, involves a certain amount of risk. A better-plan is to use turpentine as middle layer and alcohol as top layer. Sometimes cudbear and alkanet are recommended for colouring the turpentine. The colouring matter of the former, however, is nearly insoluble in the liquid, and the latter only slightly soluble. It is much better to use a resinous substauce, such as dragon's blood, or one of the vegetable oleoresins, which are quite resisting to daylight, as, for instance, oleoresin of capsicum, which imparts a reddish to reddish-yellow tint; oleoresin of male fern, which imparts a greenish tint.—American Druggist.

BOTTLE-GLUE.—A good bottle-glue, insoluble in water, and particularly suitable for sealing bottles containing volatile liquids, such as chloroform, ether, alcohol, &c., may be prepared by soaking glue or gelatine in water, dissolving it in glycerine, then adding tannin (about 2 oz. for every pound of glue), and heating the mixture on a water-bath until perfectly homogeneous, and as free from excess of water as possible. It may be coloured, if desired. Wheu wanted for use it is melted and applied to the mouth of the bottles.—

Trop. Agriculturist.

Physiology In the Public Schools.—Dr. Pilsbury "So you have been eating too much candy again. You wil never get well as long as you do that." Emma (who ha lately taken up physiology): "Oh, I guess I will! The ghastly juice will chyme it into chyle, when the agitation of the diagram will naturalise the inspiration, and reselve it into sweet bread or pan-grease, which merely acts as a superific.—American.

AN Oshkosh girl made her lover a birthday present of ; bottle of "Benson's Boil-banisher." He wrote her thanking her for the gift, but at the same time observing that h thought she lacked those *spirituelle* traits of character essential to his happiness.

FROST PENCILS.—Dissolve 5 parts of camphor in 200 part of olive oil, and, separately, 10 parts of iodine in the smalles possible quantity of spirit. The mixed fluids are worked u with 90 parts of melted paraffin, and, when set, moulded int cones like the neuralgic and mustard pencils, and fitted int wooden cases.—Rundsehau.

Medical Gleanings.

ICTHYOL, according to the Monatsheft. der Prak. Dermat has been found useful in psoriasis and eczema, as well as i cases of acute and chronic rheumatism. It was introduced by R. Schröder, who prepared it from a bituminous minera found in the Tyrol. This mineral contains the remains o primeval fishes; hence the name. To prepare ichthyol th bituminous mineral is submitted to dry distillation; an oi distils over of very characteristic penetrating abominabl smell. On standing it separates into two layers—one viscou and pitch-like; the other consisting of a light, thin, mobile and dark oil. The latter is rectified, and yields a clear oil o the peculiar odour described. This oil is distinguished from other mineral oils by its containing a very large percentag of sulphur. Treated with concentrated sulphuric acid heat i evolved and the sulphurous acid liberated. When neutralise a remarkable alteration occurs in both colour and odour, th latter becoming aromatic and characteristic of ichthyo Ichthyol is a tar-like substance, somewhat of the consistence of vaseline, and is, no doubt, a mixture of several substance: the chief constituent of which is probably a sulpho acid. I has a weak alkaline reaction, is slightly soluble in water alcohol, and ether, and completely soluble in a mixture c ether and alcohol. Ichthyol contains 10 per cent. of sulphu and 0 0005 per cent. of phosphorus. Unna has tested th therapeutical value of ichthyol, and has used it successfull in psoriasis and eczema. For adults Unna recommends th employment of 40 to 50 per cent. of ichthyol in vaseline; fo children, from 10 to 20 per eent. He states further that ichthyol is extraordinarily soothing, and alleviates itching He and other physicians have likewise found it valuable i chronic and acute rheumatism. An excellent ointmeut fo obstinate cczema is-

							Larra	
Litharge	••	 	••			••	10	
Vinegar		 		••			30	
Olive oil		 ••	••	••	••		10	
Lard	••	 ••	••	••	••	• •	10	
Ichthyol		 ••		• •	• •	• •	10	

Boil the litharge with the vinegar down to 20 parts, then add the olive oil, lard, and iehthyol.

THE THERAPEUTICS OF SANTONINE.—In one of the recensittings of the Medical Society of Berlin. L. Lewin made som useful remarks upon the proper way of giving santonine. The author states that the usual way—in the form of lozenge and the like—is not efficacious, since but a relatively smaquantity gets into the intestines, where the worms are, an suggests its admixture with oily substances as preferable. Thus given santonine is not absorbed by the stomach at all and the whole passes into the intestines, where it is gradual assimilated, thereby exerting the desired effect of killing the worms, which are then ejected. The proportion for adult is 0.2 g. of santonine to 60 g. of oil. Olive, eastor, eod, cany other suitable oil may be employed, to which a drop of oleum cince ether may be advantageously added.

HAMAMELIS VIRGINICA, much recommended in hæmorhoids, swollen veins, nose-bleeding, small-pox, &c., is precribed by Dr. Tison in the *Concours Médicale*, in the ollowing formulæ:—

The Medical Report of the London Temperance Hospital for 1883-4 gives a list of fifty-three cases of typhoid fever which were treated with the result of six deaths. All the tatal cases were complicated. None of them were total obstainers. Of the abstainers who were under treatment all recovered, though some of them were severe cases. Alcohol was not administered in any case.

TANNERS AND THE CHOLERA.—The Vienna Tanner's Gazette states that an Italian contemporary devoted to the leather trade calls attention to the fact that the tanners in Italy have been spared from the ravages of the cholera epidemic recently rampant in that country, and that in all towns where tanneries existed the plague was of a less virulent character. It has been noticed that streets in which there are tanneries have been altogether spared, whilst other parts of the same town were terribly visited by the cholera.

THE Revue de Thérap. gives this formula for an ointment to be used for hæmorrhoids:—

MEDICAL PRACTICE IN THE ARGENTINE REPUBLIC.-The British Medical Journal quotes from the South American Journal an article describing the position and prospects of physicians in the Argentine Republic in the most glowing terms. All the medical men are said to be making fortunes, and there is still room for healthy competition. The most extravagant fees are paid in special cases by the wealthy classes without a murmur. Ordinary confinements cost about 201.; particular ones may run to 1001. For amputation of an arm 6001, to principal and 4001, each to two assistants is noted; attendance during typhoid fever, 2001. It must be remembered, however, that expenses are very high. In the city of Buenos Ayres there are said to be now practising about a dozen English-speaking doctors, all doing well. In other large cities of the interior and in the country there are a good number to be found. But immigration is flowing into the country, and everything growing so fast that there seems to be no fear of overcrowding. The charges by dentists are said to be on a like magnificent scale, as much as 5l. or 6l. being paid for stopping a tooth. Before a doctor is allowed to practise in the Argentine Republic he must pass an examination, and be licensed by the Government Medical Board; and before he can do this he must, of course, be master of the Spanish language. The population of the country is so cosmopolitan that the more modern languages he speaks the better will be his chances of success.

Large Dose of Potassium Iodide.—Dr. E. C. Seguin states in the *Archives de Méd.* that in cases of cerebral affections he has given 60 to 120 grains of iodide of potassium thrice daily to patients between four and eight years old with good results as regards the cerebral symptoms, and without iodism or irritation of the stomach and bowels.

ASTHMA REMEDY.—Dr. C. Cook, D.D., has written to the editor of the Cambrian to publish a remedy for asthma and bronchitis that has never failed him. It was given to him by a fellow-sufferer in Leamington, and originally came from the leading physician there. It is as follows:—Two oz. of garlic, peeled and bruised; 1 lo. of coarse brown sugar; 1 pint of water; to be simmered together for two hours; it must never come to a boil, since boiling-heat destroys the spirit of the garlic. It should be put into a bottle, and a wine-glassful taken first thing in the morning and last thing at night.

Personalities.

Mr. H. B. BAILDON, pharmaceutical chemist, has been elected a Fellow of the Royal Society of Edinburgh.

SALE OF FOOD AND DRUGS ACT.—Mr. Bernard Dyer, F.C.S., F.I.C., has been appointed public analyst for Southend.

THE Lord Chancellor has signified his consent to the appointment of Mr. Richard Hawkes, pharmaceutical chemist, as a magistrate for the borough of Stratford-on-Avon.

The personal estate of the late Mr. George Bentham, the eminent botanist, has been proved over 23,000%. He leaves, among other bequests, 1,000% to the Linnean Society, and a similar amount to the Royal Society Scientific Relief Fund. The residue of his real and personal estate, which will be considerable, is to be held upon trust to apply the same in preparing and publishing botanical works, or in the purchase of books or specimens for the botanical establishment at Kew; or in such other manner as his trustees may consider best for the promotion of botanical science.

IN July, 1880, we had occasion to publish a valedictory notice of Mr. B. Suart, who, as manager for twenty-five years of Mr. William Mather's druggists' sundries business in London, had become well known and highly respected in our commercial circles. On the death of Mr. Mather, as will be remembered, his London business was split up, and Mr. Suart left London and for a time engaged in quite different pursuits to those to which he had been accustomed. We now have pleasure in meeting him again in this city. He has taken suitable offices at 24 Queen Victoria Street, where he intends to carry on business as a general commission merchant, and where he will be pleased to see or hear from his old friends. We notice that he still maintains his connection with the country firm with which his name has been associated for some time.

Miscellaneous.

THE MEDICINE-CHEST.—In "The Life and Times of Sydney Smith," lately published, the author, Mr. Reid, quotes a rhymed letter which the reverend humourist addressed to a Mrs. Howard, who had asked his advice about stocking a medicine-chest. Sydney Smith wrote:—

WITH store of powdered rhubarb we begin: (To leave out powdered rhubarb were a sin). Pack mild magnesia deep within the chest; And glittering gum from Araby the blest; And keep, O lady, keep within thy reach The slimy surgeon, blood devouring leech. Laurel-born camphor, opiate drugs prepare, They banish pain and calm consuming care. Glauber and Epsom salts their aid combine, Translucent streams of easter oil be thine. And gentle manna in thy bottles shine. If morbid spot of septic sore invade, By heaven-sent bark the morbid spot is stayed; When with black bile hepatic regions swe l, With subtle calomel the plague expel. Anise and mint with strong Æolian sway, Intestine storms of flatulence allay, And ipecacuanha clears the way. Soda and potash change the bumours ernde, When boven parsons swell with luscious food. I know thee well, thou antimonial power, And to thee fly in that heartrending honr When feverish patients heave their laden breath, And all is sickness, agony, and death! Spare not in eastern blasts when babies die, The wholesome vigonr of the Spanish fly; From timely torture seck thy infant's rest, And spread the poison on his labouring breast. And so, fair lady, when in evil hour Less prudent mothers mourn some faded flower, Six Howards valiant, and six Howards fair, Shall live to love thee, and reward thy care.

DOCTOR (who has been sent for at 2 A.M.): "Madam, pray send at once for the clergyman, and, if you want to make your will, for the lawyer." Madam (horrified): "Good gracious! Is it so dangerous, doctor?" Doctor; "Not a bit of it; but I don't want to be the only fool who has been disturbed in his sleep for nothing."—Pacific Med. and Surg. Journ.

LORD WOLSELEY'S offer of a 100*l*, prize as an incentive to valour has soon found its level. I hear that the proprietors of a well-known patent pill have sent the General several thousand handbills, to be distributed amongst the soldiers, together with a cheque for 150*l*. as a guerdon for the man who is first in placing one of the said handbills upon the front door of Gordon's palace at Khartoum.—*Truth*.

Trade Notes.

MESSRS. OSCAR SUTTON & Co., of Preston, have ready for gratuitous distribution a very tasteful show-card of their tooth-blocks. A facsimile of the card is given on the circular inserted in this issue.

Mr. Hickisson, of marking-ink fame, informs us that he has now perfected a marking-ink pencil to write on damp linen, and he assures us we may expect the greatest things of his new invention, and that we shall not be disappointed.

Mr. Albert M. Todd, whose "Menthol" circular is stitched up with this issue, asks us to explain that it is his printer and not he who has adopted "peperita" as a form for spelling piperita.

MESSRS. F. DARTON & Co., of St. John Street, West Smithfield, have shown us a new electric bell for invalids, of French manufacture, which, they say, is much simpler and cheaper than anything that has been produced before. It may well be worth the attention of our readers.

SOME cleverly-designed humorous cards, representing the various specialties of Messrs. Joseph Pickering & Son, of Sheffield (furniture-polish, plate-powder, polishing-paste, and razor-paste) in actual use, have been sent to us. They are novel in style and will at once attract attention.

BENNETT & Co., Leicester and 11 Long Lane, E.C., are now sending out manna cake in gross boxes, got up in very pretty style for the counter; the boxes are of elegant decorated tin, with a striking show-plate of the same material in five colours.

THE Chemists' Aërated Waters Association (Limited) tell us that reports have been spread that they are supplying their goods to others than chemists and hospitals. They emphatically assert that they supply none but such customers, and are prepared to prove that statement from their books.

SOME speculative pharmacists may take an interest in the advertisement of Mr. T. Sammi, of Gooty, Madras. He offers the sole agency for some Indian remedies, including a "cholera cure," among others. If judiciously worked with a sufficient capital these things might take well, and the possibility of an invasion of cholera is a factor worth considering.

ZYMOLYS is a pleasant-tasting preparation introduced as a harmless internal disinfectant. It is claimed that, by taking this solution, the human body is rendered proof against all zymotic diseases, and it is therefore urged that when any such disease occurs in a family, or during an epidemic, the unattacked members should at once have recourse to Zymolys. Messrs. Barclay & Sons are agents.

BALL'S BRONCHIAL BLESSINGS.—A new lozenge introduced through Messrs. Barclay & Sons, especially for irritation and tickling of the throat; is apparently an agreeable form for the administration of cubebs to the bronchial passages. This remedy has had a wonderful effect in such complaints, and in these lozenges will doubtless maintain its reputation.

WE are asked to state that the Chemists' Aërated Waters Association have recently reduced their price for seltzerwater in syphons, and that the quotation which appears in their advertisement in The Chemists and Druggist's Diary is, consequently, incorrect. The price should be 1s. 6d., and not 2s., per dozen.

Messrs. Barclay & Sons have just issued a new catalogue of proprietary medicines and druggists' sundries, which shows a considerable increase of bulk over last year's issue. Net prices are quoted, strictly alphabetical order is maintained, and each section of the catalogue is printed on a differently-tinted paper.

WE stated in our issue of last month that it was "reported" Messrs. Raimes & Co. had taken two of their first hands into partnership. We learn there is no change in the present partnership, but that the firm have given their two first hands an interest in the business, both on account of their appreciation of their long and valued services, and also on account of the increasing demands of their business.

THE present proprietors of "Liebig's Chemical Food," we are informed, have reason to believe that a sourious product is being made and sold, imitating the style of theirs, and they offer 200l. reward for information which will enable them to prove the piracy. They invite chemists holding any stock to send it to them to be changed for new bottles with more distinctive markings.

TRADE-TARKS MEGISTRATION is becoming a matter of some importance, even to retail chemists. Any fancy words can now be registered with or without design. Messrs. Horn & Co., of Surrey Chambers, 172 Strand, Londou, have sent us a circular giving remarks and directions from a very practical standpoint, and advertise themselves as willing to give advice and undertake all formalities.

Mr. N. G. WILCOCKS, maker of aërated-mater machinery, Bath, evidently intends to make himself the friend and connsellor of small beginners, always with an eye to large endings. His easy terms are well known; machinery, directious, recipes, all complete, for twenty-four monthly instalments of a guinea. But he now adds another stepping-stone to greatness in a syruping apparatus costing 3s. 6d. It is, of course, intended for syruping aërated beverages by hand, and for a trade that is not too large. At any rate, the cost is not so great that there need be any hesitation in discarding it when a machine can be kept at work.

Messrs. Lorimer & Co., of Hargrave Park Road, London, have put before us samples of their very numerous specialtics put up for chemists' sale. These include all the popular preparations, such as cod-liver oil, "Perfect" castor oil, Parrish's syrup, granular preparations, quinine and iron tonic, cubeb cigarettes, extract of malt, disinfecting fluid, among medical articles; all sorts of flavouring essences, fruit syrups, ketchup, insect powder, salad oil, &c., among domestic articles; lavender water, various tooth-pastes, hairoils, glycerine jelly, and hair-washes, among perfumery. The style of get-up is very handsome, and the quality of the ingredients seems to be unexceptionable. These goods can geuerally be supplied with the purchaser's names on the labels, or otherwise, and we understand that this class of trade in Messrs. Lorimer & Co.'s hands is developing to a large exteut both in this country and in the colonies.

A NEW net price-list of patent medicines and sundries has been sent us from Messrs. F. Newbery & Sons. A useful feature of this list is the grouping of certain specialties, such as "Foods," "Hair," "Corn," and other proprietaries. This is a convenience for inventors who wish to adopt a name not yet in use. They will find a good variety which they may not employ, but can probably get a suggestion of what they may take.

Under the title of the "Opaline" tooth-paste, the Crown Perfumery Company have introduced a specialty which deserves mention both on account of its quality and its cheapness. It is a cream-coloured paste with an aromatic cachou-like flavour, put up in oval pots of unusually large size, for retailing at 6d. and 1s. The company also put on the market an excellent "Opaline soap," which is quite on a level with the standard of their manufactures.

From Messrs. Lyneh & Co. we have a new catalogue of druggists' sundries, proprietary articles, perfumery, shop-fittings, and surgical instruments. This is handsomely printed and freely illustrated. The catalogue proper is comprised in 280 pages, and the index, very closely printed, occupies 15 pages. There are besides nearly 100 pages of advertisements. Much care seems to have been taken to simplify the classification.

THE DORIC CURATIVE COMPANY have invited us to examine their orignal testimonials to the value of their several preparations. Tooth-elixir, eye-lotion, hair-renewer, neuralgia specific, eorn and wart cure, and specific for cuts and sprains. We cannot undertake this duty, nor can we at will assume the necessary conditions for practically testing the virtues of the medicines; but we take the opportunity of directing attention to the wide range of usefulness offered by this company.

Mr. F. J. Brett, of Leieester, has purehased the patent for medicated grapes, and means to push several formulæ; amongst them digestive, eough, worm, and aperient. Mr. H. Brittain has undertaken to introduce them in India, as well as the Brisbane Liebig's extract of meat. Mr. Brett gives particulars among our advertisement sheets. They will still be worked under the name of Benediet & Co. It will be seen that he offers them in two-pound bottles and put up in 1s. $1\frac{1}{2}d$. boxes.

The "Trypograph" is one of the cleverest of the multitudinous inventions for the production of a number of fuc-simile eopies of letters, designs, &c. We notice that lately the prices of this apparatus have been eonsiderably lowered. To print from the "Trypograph" the original is first written on special paper, producing a stencil. This is fitted in a frame, and copies from it can then be taken as fast as the ink-roller can be passed over it. A very large number can be taken from one stencil. The apparatus is supplied in a neat eabinet. Messrs. Zuecato & Wolff, of Charterhouse Street, are the patentees.

The tendency of modern pharmacy still seems to be towards concentration. Messrs, Evans, Sons & Co., of Liverpool, who, we believe, were the first to introduce a full line of fluid extracts into this country, inform us that those preparations are rapidly gaining ground, and are bidding fair to supersede tinetures, decoctions, and infusions. It is obvious that preparations of this kind can only be efficiently and economically made on a large scale. If fluid extracts are to be, as is probable, the method of dispensing medicines in fluid form in future, the manufacturing pharmacist will, therefore, become more indispensable than he is at present. The general formula for fluid extracts is that one fluid ounce should be equivalent to one ounce of the root or herb which it represents. A concentration to this extent requires powerful and costly apparatus, but, when obtained, a very convenient product results. Messrs. Evans publish a long list of medicines in this form. Many of them are offlicial in the U.S. Pharmacopæia, but all are of the strength quoted, namely, one minim represents one grain of the drug.

THE CHARLES A. VOGELLER COMPANY, of Baltimore U.S.A., manufacturers of St. Jacob's Oil, after conquering the New World, have commenced an invasion of this country. Their manufactory at Baltimore has long been one of the sights of the city, and contains what is said to be the largest printing-office in the State, devoted entirely to the production of the advertising matter. The policy of the company has always been to study the interests of the druggists. The invading force at present in this country consists of a couple of advertising chariots, got up regardless of expense, with plateglass, gold, and all sorts of embellishments, which started from Liverpool and are being slowly driven through the eountry. On the box of each is a responsible agent, controlling a small regiment of distributors, who place in each house a copy of a calendar, to be hereinafter mentioned. This distribution is from village to village, street to street, and house to house, and is not to ease till the whole country has been covered. The chariots have been imported from America, where they made considerable sensation, and are said to surpass everything that has been seen in this country. The St. Jacob's Oil Family Calendar, 1885, is the publication now being distributed. It eertainly is worthy of notice. Nearly every page contains an original story written by some well-known American humourist and characteristically illustrated. The advertising matter is not intruded too prominently, but is written in a very taking style. The cover is a striking specimen of colour-printing. Specimens on superior paper are distributed with this number to all our readers resident in Great Britain, and we have no doubt that the London agent (45 Farringdon Road) would be pleased to send a copy to readers living abroad. These calendars are not sent to druggists for distribution, as this is undertaken systematically by the company. With the calendar comes also a long review of the business of the company reprinted from the Baltimore Daily American.

MESSES. STURTON BROTHERS, of Cambridge, have, through Mr. Brett's agency, sold their branch business to Mr. Barrett.

Mr. John Mullett, drug merehant, has removed his offices from 29 Mincing Lane to 45 Fenehureh Street.

THE depôt of Hoge's Honey Company (Limited) will henceforth be at 64 King William Street, E.C., only.

Mr. H. B. Firman has purchased the business of Barber's phosphor-paste and Barber's vermin-killer from the sue-eessors of the late Mr. Barber, of Salisbury.

Mr. Esam, of Kibworth, has, through the agency of Mr. Brett, of Leieester, sold his business to Mr. Freeland, of Angmering, Sussex.

Mr. DAVISON, of Jurrona, has sold his business to Mr. Hornby, of Maeelesfield, through the agency of Mr. Brett, of Leieester, who also conducted the valuation.

MESSRS. CAVILL & TOWNSEND have dissolved partnership, the latter continuing the business. Valuation was conducted by Mr. Maltby, of Lincoln, and Mr. Brett, of Leicester.

THE business of the late Mr. Noad, of 84 Broad Street, Reading, has been purebased by Messrs. Tunbridge & Wright, of Reading.

Mr. G. Salter, formerly of Red Lion Square, Holborn, has recommenced business at Corn Exchange Passage, Birmingham, where he invites orders for his "Perfeet Pattern" tooth-brush.

Mr. Wm. Blain, pharmaeeutical chemist, of Bolton, has received his sons into partnership, and the business will henceforth be conducted under the style of "Wm. Blain & Sons."

Mr. Anderton, of 146 Gooch Street, Birmingham, has sold his retail business at this address to Mr. Johnson, of the same town. Mr. Barelay valued for the buyer and Mr. Brett for the vendor.

MR. ALFRED WALL, who was formerly in the service of Messrs. Savory & Moore and of Messrs. Corbyn & Co., has recently opened a very tasteful pharmacy in the High Street Bromley. The shop was fitted by Messrs. Bowling & Govier of Gun Street, Brushfield Street, Bishopsgate.

A HANDSOME shop has been opened at Broekley by Mr. Atkinson, of Greenwieh. In this ease, also, the fittings have been supplied by Messrs. Bowling & Govier.

MESSRS. LAMB & WATT, of St. Anne Street, Liverpool, makers of orange-quinine wine, now represent the firm of Slee, Slee & Co., vinegar-makers, for the Liverpool and Manchester districts. Mr. T. S. Sloper, the former representative of Messrs. Slee, will conduct the agency.

MESSRS. GEORGE PHILLIPS & Co., the well-known spirit distillers of Holborn, have lately left their old premises for nuch more commodious ones, which they have erected in the Clerkenwell Road, at the top of Hatton Garden, where they have put up new steam-stills and all the most modern and perfect apparatus.

NEW COMPANIES.

The Hygienic Candle and Night Light Company (Limited).—Object, to adopt and carry into effect an agreement dated November 17, 1884, which provides for the purchase from Dr. A. Wright of an invention for the manufacture of hygienic candles, &c. Capital 10,000., divided into 10,000 shares of 1/ε each. The first subscribers are:—H. H. Wells, solicitor, 10 Parternoster Row, E.C., 1 share; James Charles Hayes, 64 Friday Street, E.C., 1; Thomas Colman, advertising agent, 161 Strand, 1; Λ. D. Cheney, 35 Great St. Helen's, E.C., 1; Edwin Parker, 5 Cromartic Road, Hornsey Rise, 1; Charles Wilkes, agent, 60 Old Bailey, E.C., 1; W. A. Spain, accountant, 76 Coleman Street, E.C., 1. Registered without articles of association.

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The British Honey Company (Limited).—Object, to produce and deal in honey in any form. Capital 20,000l., divided into 20,000 shares of 1l. each. The first subscribers are:—Herbert R. Peel, Thornton Hall, Stony Stratford, 50 shares; J. S. Archibald H. Tracey, 116 Queen's Gate, S.W., 50; Duncan Stewart, 69 Harewood Terrace, S.W., 50; F. Zehetmayr, 5 Crescent Place, Clapham Common, S.W., 50; George Walker, 12 Lingfield Road, Wimbledon, 50; Thomas W. Cowan, Compton Lea, Lewisham, 50; John Henckle, King's Langley, Herts, 25; George Henderson, Langholme Mount Park, Ealing, 10. The number of directors shall not be less than three, nor more than seven. The first directors shall be Rev. H. R. Peel, Hon. F. S. A. H. Tracey, D. Stewart, F. F. Zehetmayr, T. B. Blow, T. W. Cowan, and Dr. George Walker. Each director to hold 50 shares; remuneration, 150l. per annum, to be divided.

Obituary.

BARKER.—On January 3, Mr. Joseph Barker, chemist and druggist, St. Helens. Aged 38.

Body.—On December 20, at 66 Aldersgate Street, William Body, for fifty-six years a true and faithful servant of Messrs. George Atkinson & Co. (late Atkinson & Biggar), in his 71st year.

CLEWS.—On December 15, Mr. Alexander Clews, chemist and druggist, Glasgow. Aged 59.

Cross.—On December 8, Mr. Henry Cross, pharmaccutical chemist, Effra Parade, Brixton, London. Aged 63.

FITZHUGH.—On November 24, Mr. William Henry Fitzhugh, chemist and druggist, Bedford. Aged 24.

FOSTER.—On November 14, Mr. William Foster, chemist and druggist, Padiham, Lanes. Aged 42.

Greatrex.—On November 25, Mr. Thomas James Greatrex, chemist and druggist, Liverpool. $\,$ Aged 40.

GRISTOCK.—On December 2, Mr. Thomas Gristock, pharmaceutical chemist, South Street, Manchester Square, London. Aged 64.

HEAP.—On December 13, Mr. Edward Heap, chemist and druggist, late of Stalybridge, Lancs. Aged 51.

HORNSBY.—On December 15, Mr. John Harwood Hornsby, pharmaceutical chemist, Odiham, Hants. Aged 79.

HARVEY.—Mr. Thomas Harvey, known to pharmacists as for many years the head of the firm of Messrs. Harvey & Reynolds, and to the world generally as a prominent member of the Society of Friends, and one who rendered great service to many philanthropic causes, died on Christmas Day last at his residence, Headingley Hill, Leeds, in his 73rd year.

Mr. Harvey was born at Barnsley in 1812. In 1822 he entered the large public school of the Friends at Ackworth, where he remained for three years. During a portion of this time Mr. John Bright was one of his school-fellows. When this great school celebrated its centenary ou June 26, 1879, it was Thomas Harvey, of Leeds, who was called on to preside over the proceedings. After leaving Ackworth, Mr. Harvey adopted pharmacy as a calling, and served the usually long apprenticeship of those days with Messrs. Southall, of Birmingham. During his residence in Birmingham he formed a friendship with one of the strong and noble spirits of a now past generation, Mr. Joseph Sturge.

In 1836 he and Mr. Joseph Sturge set out for the West Indies on a mission which had for its object the collection of information on the condition of the negroes in those



colonies. A volume entitled "The West Indies in 1837" was the result of this tour, and the narrative gave an impetus to the strong anti-slavery feeling in England. The complete abolition of the system of apprenticeship was called for, but in 1838 the Legislatures of eight islands voluntarily passed. Acts declaring apprenticeship to be ended and the slaves free. The consequence was that in the last-named year no fewer than 800,000 persons received their full rights as free men.

At the close of 1856, after the termination of the Crimean War, Mr. Harvey and Mr. Sturge went on a mission to the Baltic coast, where great privation was experienced, and distributed among the sufferers a sum of 9,000*l*., contributed by sympathising friends in England for the natives who had lose their means of livelihood through the war. This was used for seed corn, fishing-nets, and in various other useful and productive ways. The Czar personally thanked the British philanthropists for their efforts. Mr. Harvey afterwards visited the persecuted sect of the Mennonites in the south of Russia—men who were punished because they would not bear arms.

Mr. Harvey commenced business in Leeds in 1839, and shortly afterwards succeeded to the connection which Mr. Wm. West (afterwards F.R.S) relinquished in order to devote himself to pure chemistry. He retired from business in 1867 and devoted himself to charitable and philanthropic enterprises. He took a deep interest in the Leeds Institution

for the Blind and Deaf Mutes, and acted for many years as its honorary secretary. In the summer of this year he formed part of a deputation sent out by the Society of Friends to Canada to settle some difficulties which had arisen in connection with questions of doctrine. For some years Mr. Harvey sat on the School Board for Leeds, and his memory will long be revered in that town by men of all parties.

The Reverend Canon Jackson, preaching at St. James' Church, Leeds, on December 28, took for his text the words, "Mark the perfect man, and behold the upright; for the end of that man is peace" (Psalm xxxvii., 37), and spoke warmly and earnestly of his lost friend. He said: "I do not remember anyone in the commercial circle in Leeds who was possessed of greater intellectual endowments, and who turned those endowments to greater advantage by diligent study that the dear friend of whom I speak. Very few, I suppose, engaged in trade could read Latin and Greek; very few could take up Job in the Hebrew and turn it into English; vcry few knew science as thoroughly as he did; very few had read literature so largely and widely as he had done; very few had used their leisure, even in a closely occupying business, so that they could speak upon almost every subject and bring some contribution to the general stock of knowledge as he could. What shall I say of those other qualities which are much more important, because much more affecting society? I have never known—and here I shall have the endorsement of every person who has known him-one more marked by uprightness, integrity, rectitude, truthfulness, conscientiousness-in all that marked his personal character, in his unselfishness, in his entire disinterestedness, I have 1 e er known anyone to surpass him. His social character was equally remarkable. He was so modest, gentle, lowly, unassuming, courteous, refined, and considerate that it was a perfect pleasure to be in his society even for the shortest time. Clear in thought, sound in judgment, wisc in utterance, convincing and conclusive, and yet so simple—no attempt whatever to appear to argue unnecessarily, or to introduce anything of false reasoning into his subject."

JONES.—On October 4, Mr. Frederick William Jones, pharmaceutical chemist, Norton Folgate, London. Aged 37.

PARKIN.—On December 14, Mr. William Parkin, chemist and druggist, Gomersal, Yorks. Aged 77.

RICE.—On September 26, Mr. Reuben Strickland Rice, chemist and druggist, Leicester. Aged 33.

ROBERTS.—On December 3, Mr. Robert Roberts, che:nist and druggist, Norwich. Aged 49.

SMITH.—On October 21, Mr. John Smith, chemist and druggist, Barnet. Aged 37.

SMITH.—At the Hospital for Consumption, Brompton, on December 9, Arthur Llewellyn Smith, registered apprentice, of Longfleet, Poole, in his 21st year, of rapid consumption.

SNELL.—On January 6, Mr. II. B. Snell, chemist and druggist, Union Street, Stonehouse. Aged 66.

STICKLER.—On November 21, Mr. Francis Miles Stickler, chemist and druggist, Hiogo, Japan, formerly of South Norwood. Aged 39.

STORY.—On December 19, Mr. Henry W. Story, chemist and druggist, Putney, Surrey. Aged 47.

TAYLOR.—On December 18, 1884, at 20 Sheep Street, Rugby, Mr. Robert Taylor, chemist and druggist. Aged 48.

THOMSON. — On November 10, Mr. William Thomson, chemist and druggist, Crieff. Aged 65.

TURNER.—On December 19, Mr. Charles Turner, chemist and druggist, Tideswell. Aged 31.

WILLIAMS.—On December 22, at his residence, Milan Terrace, Rochdale Road, Manchester, Mr. F. P. Williams, chemist, of Oldham Road. Aged 66.

MARRIAGE.

BAWDEN—WELSFORD.—On December 8, at Ridgway Congregational Church, by the Rev. J. Sampson, John McRinley Bawden, to Annie Elizabeth, widow of the late William Welsford, chemist, of Plymouth.



[The following list has been compiled expressly for The Chemist and Druggist by G. F. Redfern, Patent Agent, 4 Sonth Street, Finsbury, London, and at Paris and Brussels.]

Absorbent-pads.—16,286.—December 11, 1884.—J. P. Strangman, of London. Improvements in the manufacture of absorbent-pads for the use of women.

Acetic Acid.—16,636.—December 18, 1884.—E. C. Allan and F. M. Allan, of London. Improvements in the manufacture of acetic acid and in apparatus therefor.

Anhydrous Oxide of Barium.—151.—January 5, 1885.—L. Q. and A. Brin, of London. Mannfacture of anhydrous oxide of barium.

Beverages.—16,803. - J. H. and W. Gailoway, of London. Improvements in the construction of apparatus for filling and syruping artificials mineral, and agrated beverages.

Beverages.—16,974.—December 29, 1834.—J. McEwen, of London. Improvements in apparatus for filling and syruping acrated beverages.

Bindwell Composition.—16 038.—December 6, 1884.—J. W. Trew, of Bristol. Trew's bindwell composition.

Bleaching Powder.-16,717.—December 20, 1884.—W. S. Richardson and W. J. Grey, of Gateshead-on-Tync. Improvements in the method of treating calcium chloride for the production of bleaching powder and other materials therefrom.

Eleaching Pcwdcr.—16,763.—December 20, 1884.—J. Burnett, of London. Improvements in the manufacture of bleaching powder.

Bottle Machine.—16,426.—December 13, 1884.—W. W. Horner, of Lower Norwood, London. A machine for soaking, brushing, and rinsing automatically bottles, jars, and similar articles.

Bottles.—16,372 and 16,374.—December 12, 1884.—H. Codd, of London Improvements in bottles for containing aërated liquids.

Bottle-washer, &c.-16,610.—December 18, 1884.—W. E. Bennett, of London. An improved machine, or apparatus, for washing and cleansing bottles, jars, and other similar vessels.

Bottle-washer, &c.—16,633.—December 18, 1884.—W. Scantlebury, of Lea Bridge Road, London. Improvements in machines for washing bottles, jars, and other like articles.

Calcium, &c.—16,652.—December 19, 1834.—F. W. Gerhard, of Wolverhampton, and J. Smith, of Stoke-upon-Trent. Depositing earling and its alloys.

Caustic Soda.—16.789.—W. G. Strype, of London. Improvements in the production of caustic soda and of carbonate of soda.

Cleansing Compound.—16,847.—December 23, 1884.—F. J. Harrison, of London. An improved cleansing compound.

Closing and Opening Bottles.—98.—January 3, 1885.—S. Bunting, of Dublin. An improved method of closing and opening bottles.

Cyanogen Compounds.—16,046.—December 6, 1884.—J. Young, of Liverpool. Improvements in or relating to the manufacture of certain eyanogen compounds.

Date Wine.—153.—January 5, 1885.—W. II. Bliss and H. Hannah Bliss, of Anerley. Improvements in making wine from dates.

Dental Engines.—17,941.—December 30, 1884.—D. Brown, of London.
Improvements in dental engines.

Detergent.—16,490.—December 15, 1884.—W. Needham, of London. An improved manufacture of detergent.

Disinfectant.-16,427.-December 13, 1884.-J. Jeyes, of London. An improved disinfecting compound.

Feeding-bottles.—38.—January 1, 1835—R. C. Baker, of London_ Improvements in feeding-bottles.

Filters.—16,024.—December 5, 1884.—T. L. Robinson.—A communication from J. Grant, of the United States.——16, 326.—December 12. 1884.—W. Oldham, of Manchester.——119.—Jannary 3, 1885.—H. Favarger, of London. Improvements in filters.

Filter-presses.—126.—Jannary 3, 1885.—J. Norman, of London. Improvements in filter-presses.

Filtering, &c., Apparatus.—16,514.—December 16, 1884.—P. Smith and R. Wild, of Rushholme, Manchester. Improvements in the means and apparatus for the purification and filtering of waters, sewage, and other liquids.

Freezing-apparatus.—16.166.—December 9, 1884.—T. Fishburn, off London. Improvements in freezing-apparatus.

Halogen Salts of Aluminium, &c.—156.—Jannary 5, 1835.—L. A. Groth.—A communication from R. Grätzel, of Hanover. A new of improved method of mannfacturing halogen salts of aluminiums and beryl.

- Hydrates of Barium, &c.-16,939.—December 29. 1884.—H. L. Pattinson, jun., of London. Improvements in the manufacture of hydrates of barium and strontium.
- Hydrates of Baryta, &c.-16,769. -December 20, 1884.-W. G Strype, of London. Improvements in the production of hydrates of baryta and strontia.
- Hydrogen.-16,759.-December 20, 1834.-R. Lehmann.-A communication from J. Oettli, of Cossonay. Improvements in the mannfacture of hydrogen.
- Inhaler.-17,071.-December 31, 1884.-H. H. Sultzberger, of Amerley, London. The conversion of the Chinese opium pipe into a therapeutie inhaler for pulmonary diseases.
- Injecting Liquids into Vessels.—17,067.—December 31, 1884.—C. L. Jackson and J. Westley, of Manchester. Improved apparatns for injecting liquids into vessels under pressure.
- Liquid Mcasurer.-16,467.—December 15, 1884.-A. St. J. W. Wriford, of London. An improved apparatus for measuring and registering the quantity of liquid that passes there through.
- Magnesium, &c.-16,651.-December 19, 1884.-F. W. Gerhard, of Wolverhampton, and J. Smith, of Stoke-upon-Trent. Depositing magnesium and its alloys.
- Magneto-electric Appliances.—15,987.—December 5, 1884.—Margaret E. Scott, of Norwich. Magneto-electric appliances for enrative and purposes.
- Measuring Vessels.—17,046. December 30, 1884. J. Douglas, of Loudon. Improvements in or applicable to measuring or other vessels to facilitate emptying their liquid contents into bottles or other receptacles and obviate waste.
- Mcdicinal Preparations.—16,060.—T. Thompson of Edinburgh. An improved machine for enveloping solid medicinal preparations with soluble substances.
- Non-alcoholic Drink.-83.-January 2, 1835.-T. F. Wilkins, of London A novel non-alcoholic drink.
- Non-intoxicating Beers. 58. January 1, 1885. A. Manbré, of London. An improved process of brewing for obtaining temperance or non-intoxicating beers.
- Oxygen, &c.-157.-January 5, 1885.-L. Q. and A. Brin, of London. Improvements in the separation and obtainment of oxygen and nitrogen from atmospheric air.
- Paints .- 39. January 1, 1885 .- S. R. Hooper, of Hart Street, Cripplegate, London. Improvements in the manufacture of Euphorbia
- Powder Distributor .- 61. January 2, 1834 .- W. S. Biffen, of Eagle Place, Piccadilly, and C. G. Gill, of Romilly Road, Finsbury Park, London. An improved powder distributor.
- Preserving Liquors, &c.-16,565. December 17, 1884. B. H. Twaite, of Tranmere, Birkenhead, Cheshire. Improved apparatus for, and method of, preserving the freshness of animal and vegetable snbstances and alcoholic and effervescent liquors.
- Preserving or Improving Liquids.-17,106.-December 3, 1884.-H. J. Haddan; a com. from P. Prat, of Lanildut. Method and apparatus for preserving or improving liquids during their discharge from easks or bottles.
- Purifying Sewage. -16,592. December 17, 1884. J. W. Slater and W. Stevens, of London. An improvement in the purification of sewage by precipitation.
- Refrigerator.-16,062.-December 6, 1884.-W. S. Squire, of Acaeia Road, Regent's Park, Loudon. Improvements in the construction of ice-making and refrigerating-machines.
- Separator, &c.-16303.—December 11, 1884.—W. E. Heys; a com. from A. Girod, of Milan. Improvements in the separation and recovery of substances dissolved or suspended in waste-waters containing fatty matter.
- Soap .- 158 and 159 .- January 5, 1885 -J. B. Speuce, of London. Improvements in the mannfacture of soap.
- Splint.-16,459. December 15, 1884.-C. E. Wright and E. C. Hammond, of Turle Road, Tollington Park, London. An improved splint for fractures of the leg and arm.
- Stoppering Bottles, &c.-16,022.-December 5, 1884.-A. J. Eli, of London. — 16,371.—December 12, 1834.—H. Codd, of London.-16,373.—December 12, 1834.—H. Codd, of London.——16,468.— December 15, 1884. — H. Jones, of Birmingham. —— 16,600. — December 17, 1834.- H. W. Stevens, of London. -- 16,816.-December 22, 1884.— H. Codd, of London.——16,969.—December 27, 1884.—D. P. de la Sala, of London.—17,035.—December 30, 1884. - C. Davage and W. Goodall, of London. - 17,044.-December 30, 1884.—W. R. Lake.—A communication from W. L. Roorback and S. & O. Twitchell, of the United States .-17,063.—December 31, 1834.—H. Cochrane, of Dublin. All for various improvements in stoppering bottles, &c.
- Sulphide of Zinc, &e.-16.220.-December 10, 1884.-H. Knight, of Liverpool. Improvements in the manufacture of sulphide of zinc and of hydrate or other salts of baryta or strontia.
- Trusses.-16,702.- December 19, 1884.-E. de Tomanzie, of London. Improvements in the construction of trusses.

Specifications published during the month:

Postage 1d. each extra.

- 491. B. P. Walker and J. A. B. Bennett. Self-acting retorts for the distillation of solid substances. 6d.
- 1,257. T. and J. Briggs. Truss. 64.
- 1,362. G. T. Neville. Stopper for bottles, &c. 6d.
- 1,752. A. Shippey. Collecting carburetted hydrogen, &c. 4d.
- 1,791. W. N. Wilkinson. Filters. 6d.
- 1,823. F. Wirth. Preparing and treating oils, &c. 6d.
- 1,843. J. C. W. Stanley. Treating certain deposits for recovering nitrogenous matters. 2d.
- 1,890. J. Harrison. Production, &c., of earbonic acid for refrigerating and acrating. 6d.
- 2.118. E. Carey and others. Treating sulphate of ammonia. 6d.
- 2,396. A. E. Webb. Wiekless eandles. 6d.
- 2,433. B. P. Walker and J. A. B. Bennett. Distillation of solid substances. 6d.
- 2,445. W. Hood. Portable distilling apparatus. 6d.
- 2,477. W. Fairweather. Filtering medium, &c. 4d.
- 2,539. F. Wirth. Paints. 2d.
- 2,568. B. J. B. Mills. Treatment of excremental matters, &c. 8d. 2,638. F. Wirth. Production of colouring matters. 4d.
- 2,651. W. Ryding Bennette. Administering medicinal preparations. 2d.
- 2,676. P. Ward. Conveying electric light into human bodies, &e., for surgical purposes. 4d.
- 2,855. P. Ward. Conveying light into human bodies, &c., for surgical purposes, 4d, 2,961. L. Bevan. Double and single pessaries, 6d.
- 2,996. L. Mond and G. Jarmay. Manufacture of sodinm bicarbonate. 4d 3,015. G. S. Hazlehurst. Manufacture of salt from brine. 2d.
- 3,037. G. Whyte. Hypodermic syringes. 4d.
- 3,038. P. A. Maignen. Compound for the elimination of dissolved matter from water. 4d.
- 3,059. H. E. Scholefield. Treatment of snlphurous oxide in the manufac ture of sulphurous acid, &c. 6d.
- 3.234. J. F. C. Farquhar. Filtering-apparatus. 6d.
- 3,293. W. Rushworth. Drawing corks from bottles, &c. 4d.
- 3,320. J. Edwards. Bottles and stoppers. 4d.
- 3,323. F. Wirth. Treating acid sulphate of soda or bisnlphate of soda fo industrial purposes. 6d.
- 3,454. J. Rheinberg. Bottles for containing acrated liquids. 6d.
- 3,455. T. Bradford. Disinfecting-apparatus. 6d.
- 3,493. W. Martyn. Dissolving leather for manure. 2d.
- 3,615. R. Baynes and A. Biglaud. Treating, &c., cotton seed and othe oils. 2d.
- 3,659. J. Glendening. Abdominal supporter, &c. 6d.
- 3,838. F. G. Riley. Corking-machines, &c. 4d.
- 3,996. F. G. Redman and J. Butt. Making sewage refuse into manur 40.
- 4,028. W. J. Chrystal. Mannfacture of bichromate of soda. 4d.
- 4,102. S. Pitt. Mannfacture of biehromate of potassa, &c. 4d.
- 4,194. J. C. Morrell. Treatment of domestic refuse for sanitary purpose &c. 6d.
- 4,198. C. S. Gorman. Manufacture of bichromate of soda. 2d.
- 4,362. F. Wirth. Manufacture of cream of tartar. 4d.
- 4,622. C. Ridealgh. Preventing water snpply becoming contaminate, with sewage, &c. 2d.
- 4,718. W. Black and T. Larkin. Furnaces for manufacturing sulphate soda or hydrochloric acid, &c. 6d.
- 4.929. C. S. Gorman. Manufacture of bichromate of soda. 2d.
- 4,961. C. D. Abel. Production of colonring matter. 4d.
- 5,552. E. P. Potter and W. H. Higgin. Manufacture of bichromate soda. 2d.
- 5.841. G. W. von Nawrocki. Extracting fat and glue from bones. 6d. 6,982. A. M. Clark. Generating and hydrating sulphur dioxide and li
- gases and vaponrs, &c. 6d. 7,542. J. H. Hamilton and C. F. and S. F. Cohen. Machines for filling, & bottles. 6d.
- 7,645. H. J. Haddan. Violet colonring matters. 4d.
- 8,132. A. C. L. Weigel. Non-alcoholic beverages. 4d. 8,218. T. Kempf. Manufacturing permanganates. 2d.
- 8,567. A. M. Vereker. Inhalers. 4d.
- 9,457. J. Brown. Grinding phosphates, &c. 64.
- 10,679. A. Alexander and E. Park. Monlds for the mannfacture of gla bottles, &c. 6d.
- 10.874. M. Perkins. Combined aërated-water bottle-opener and com screw. 4d.
- 11.626. H. Finch. Stoppering bottles. 4d.
- 12,113. G. L. Rands. Safeguards for bottles containing poison, &c. 4d.
- 12.541. S. Puplett. Condensers and refrigerators for icc making, &c. 6 12,544. S. Pnplett. Iee-moulds, &c. 6d.
- 12,666. W. Edge. Wrapping up solub'e or insoluble blue. &c. 4d.
- 12,925. P. Fagan and others. Stoppering bottles. 4d.
- 13,343. W. R. Lake. Manufacture of medicated paper, &c. 6d.

13,419. T. Rule. Bottle stoppers. 4d.

13,590. P. Jensen. Production of alkali carbonates, &c. 6d.

13.925. A. M. Clark. Purifying glycerine, &c. 6d.

14,226. J. Wilkinson. Stoppering bottles, &c. 4d.

14,361. M. Cock. Coating for explosive compounds, &c. 2d.

Amended Specification.

1870.

3,070*. H. Codd. Bottles and stoppers. 4d.



PARTNERSHIPS DISSOLVED.

Generiths & Co., White Post Lane, Hackney Wick, tar distillers and cebemical manufacturers. December 31, 1879. (Frederick Griffiths and William Beavis.)

HOLBORN, R. M., & SONS, Mincing Lune, tea and coffee dealers. As regards Snell, December 31. (Robert Major Holborn, William Holborn, Augustus Moyridge Snell, James Frederick Godsmark, and Robert Holborn.)

LEVERKUS, HUSTE & Co., Learnington Place, Manchester, Seething Lane, London, and Melville Chambers, Lord Street, Liverpool, drysalters, exporters of machinery and chemicals, and merchants. December 19. (John Julius Henry Otto Leverkus and Hermann Arthur Huste.) Debts by Leverkus.

SMITH, T. & H., & Co., Duke Street, Edinburgh, Worship Street, London, and Blandfield Chemical-works, Canonmills, Edinburgh, chemists and druggists. April 1. (Peter S. Smith & James Smiles.) Debts by Smith.

RECEIVING ORDERS.

ALLEN, FREDERICK CHARLES, 30 Digbeth, Walsall, chemist and druggist.

December 9. Examination January 5, at 12. Court—Walsall.

ROMANS, THOMAS. Wrotham, chemist and druggist. January 1. Examination January 27, at 2.30. Court—Tunbridge Wells.

TAYLOE, WILLIAM HENRY, 38 Walbrook, and 186 Tulse Hill, chemist and druggist and agent. December 19. Examination January 27, at 11, at 34 Lincoln's Inn Fields. High Court of Justice.

DIVIDENDS.

CROWTHER, WILLIAM CHARLES, Tickhill, chemist. Second and final div. 5s. 7d. on December 31, at office of Trustee—R. A. Rawson, Sunderland Street, Tickbill, in Kotherham.

DAY, JOB, & SONS, Brigg, dry-soap manufacturers, Brigg. July 8, 1884.
Claims for first div. 2s. 6d. by January 3, to Trustee—E. Halmshaw,
10 Wraby Street, Batb.

IVES, BENJAMIN, Henry Street, Alberthorpe Road, Wakefield, soap and grease manufacturer and manufacturing chemist. Div. 1s. 5d. on January 1, at Official Receiver's Office, Southgate, Wakefield.

JAMES, HENRY, Mitcheldean, chemist, stationer, and livery stab'e keeper.
First and final div. of 1s. 6d. on December 13, at Official Receiver's
Office, 84 Barton Street, Gloucester.

ADJUDICATIONS.

Lenglet, Gustave, 27 Newthorpe Street, Nottingham, druggists' sundryman and commission-agent. December 20. Court—Nottingham.

TREBLE, GEORGE, 50 and 52 Whitmore Road, Hoxton, and 46 De Beauvoir Road, Kingsland, trading as George Treble & Son, shopfitter and showcase-maker. December 5. High Court of Justice.

ORDER OF DISCHARGE.

IVES, BENJAMIN. Hervey Street, Alverthorpe Road, Wakefield, soap and grease manufacturer and manufacturing chemist. Granted, subject to payment of 151.

COMPANIES WOUND UP.

HYDRONE COMPANY (LIMITED). December 17, by Justice Pearson. On pet. of F. W. Potter, 17 Queen Victoria Street, printer and stationer; A. Ardley & Son, 27 Wormwood Street, furniture-dealers; and J. De Horne, I Angel Court, City of London, stationer. Solicitors—G. Davis, Son & Co., 80 Coleman Street. By order.

Crade Report.

WE have received a telegram from our New York correspondent, dated January 14, 1885, to the following effect:—

"Since my letter of December 31 peppermint oil has continued to advance. Present price \$3.50. Still advancing." On reference to the letter it will be seen that our correspondent points out that the quotation at that date (\$2.75) for naked oil was equivalent to \$3.25 bottled and f.o.b., and to 15s. 4d. in London. Present value, therefore, if, as we presume, the telegram refers to "naked" oil, would mean an advance of 3s. on those figures.

The Board of Trade returns for December were far from cheering, and they gave a bad finish to the year. The imports for the month were valued at 33,073,970%, which was 797,161% less than in December, 1883. The exports totalled 17,840,103%, showing a decline of 1,130,999%. The year's imports and exports were as under:—

			1883		1881
			£		£
1mports			 425,603.932		389,774,549
Exports			 239,799,473		232,927,575
Imports	re-exj	ported	 65,537,597	• •	62,443,715

The subjoined figures apply to the year's totals respectively:—

Imports.

	1882	1883	1884
Quicksilver lbs. value £	3.444,065	4,088 983	4.497.748
	279.291	299,689	333.918
Alkali	67.029	60,289	66,939
	87,901	81,641	70,201
Chemical manufactures and products, unenumerated value, e	1,518,728	1,544.694	1,502.668
Cochineal cwt.	24.934	21,144	14,100
	244,894	151,438	80,100
Aniline ,, Alizarine ,,	414,685	383,584	£ 275.686 244.435
Other coal-tar dyes,	1	,	33,734
Cocoanut	136,007	210.874	245,695
	214,236	365.716	398,488
	23,190	30 935	17,201
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	937,601	1.193,797	715.752
	801,545	743,512	825.822
Petrolenm value £ galis.	1,220 817 59,135,384		1,385,345 52,808,436
Sced, of all kinds value £	1,704,753	2,156,235	1,705.773
	14.620	10,513	12.546
	478,208	365.855	384.509
Train, blubber, and sperm tuns value £	15 924	16.899	17,525
	526.832	596.721	531,421
Turpentine ewt.	357,878	350,138	462,134
	639.685	555,902	559,972
Bark, Peruvian cwt. value £	138,763	117.325	105,957
	1,781.482	1,429,231	906,954
	840,800	1.135,033	789,224
Drugs, unenumerated "	0701000	1,100,000	100,664

Exports.

25.000.00	•		
	1882	1883	1884
Alkali	6,735.800	6,947.000	6,567,326
	2,067,806	2,124.962	2,090,873
	1,601.100	1,600.600	1,611,698
	340,303	480,278	661,797
	935.293	922,649	892,046
	2,269.693	2,100,253	2,093,186
	80.014	69,371	102,853
Peruvian bark cwt. value £ Foreign chemicals " Quicksilver ibs. " value £	903,332	555.678	679,336
	217.668	309,829	226,483
	3,031.784	3,674,789	3,936,881
	242,752	272,030	285,995

MINCING LANE, January 13.

The new year opens, we are glad to say, with many hopeful signs of returning trade, and, although business from the date of our last report until now has been almost at a standstill, the period being a strange combination of holidays, stocktaking, and book-balancing, yet within the last few days many of the most depressed markets have shown signs of returning vigour, with and without actual increase in prices. The improvement in the trade of the United States has been promptly reflected here in many branches.

To digress a little, we may add that the corn and flour markets have particularly felt the influence of the American

revival.

The end of the year has not been without its painful incidents, and the collapse of several old respectable firms who could no longer bear the continued strain of depressed values, &c., has caused much regret. It is to be hoped, however, that such events will not be without good results in helping to restore confidence, which has been sadly shaken of late.

The drug sales, held the 8th and 9th inst., were more animated than for some time past, buyers coming occasionally well to the front with increased competition, prolonging the sales well through the second day.

Amongst those articles which have improved in value of fate may be specially mentioned bismuth, bromine, and H. G.

Hotchkiss' American peppermint oil.

ACIDS commence the year without improvement. Citric has difficulty in finding buyers at 1s, $4\frac{3}{4}d$, per lb. Tartaric is steady—English at 1s, 8d., foreign 1s, $7\frac{1}{2}d$, per lb. Oxalic very quiet at 6d, per lb.

Aloes met with good trade in the last drug sales, and of 185 packages of Cape offered 127 sold at 24s. 6d. to 35s per cwt. Of 30 cases East India hepatic 25 sold at 6l. 10s. to 7l. 17s. 6d. per cwt., according to quality.

ALUM is steady—ground in bags, 6l. 7s. 6d. per ton, loose dump 5l. 17s. 6d. per ton.

AMMONIA.—Sulphate quiet, grey 24 per cent., 13l. per ton. Carbonate 5d. to 5 $\frac{1}{4}d$. per lb.

ANTIMONY.—Crude being less freely offered is better in value at 22l. per ton, and the market is very steady. Regulus remains at 43l. per ton.

ARSENIC in very limited demand at 12s. 6d. to 12s. 9d. per cwt.

Balsams are again weaker. In last sales 23 cases Peru svere bought in at 6s. 3d. to 6s. 6d. per lb.; 34 packages of Capivi at 1s. $7\frac{1}{2}d$. to 1s. 9d. per lb., and 29 cases Tolu at 1s. 10d. per lb.

BARK.—An increased export demand and smaller quantities offering in public sales have caused an improvement in

the position of ciuchona qualities.

Shipments of both East Indian and South American are still reported to be on a much reduced scale, especially with the latter description; but what effect the present improvement in the European market will have upon the producing districts remains to be seen.

 $\mbox{Bark Sales.}-\mbox{About 4,500 packages offered to-day met a good market, without actual advance in prices. Fully three-quarters of that offered found buyers.}$

BISMUTH.—Sellers refusing to name a price, higher rates are expected.

BLEACHING POWDER is steady but quiet, at 81. per ton exwarehouse.

BORAX.—A fair business at 40s. to 42s. per cwt.

BROMINE.—Continental supplies being required for their own manufactures, much higher prices are demanded for export, hence all English bromides are advanced.

CALUMBA ROOT.—136 bags were offered recently in public sale, but only 29 bags sold, poor quality, at 17s. 6d. to 20s. per cwt., the remainder being bought in at various rates ranging from 18s. to 50s. per cwt.

CAMOMILES continue in restricted demand at about 42s. per cwt. for best white flowers.

Camphor is steady, and lower rates appear improbable. English refined $10\frac{1}{2}d$. per lb. Foreign makes somewhat less,

CAMPHOR OIL.—134 cases Japanese pale oil offered in last drug sales were all bought in at 5d. per lb.

CANTHARIDES.—Russian flies are scarce at 6s. 6d. to 7s. per lb. China 5s. to 5s. 6d. per lb.

CARBOLIC ACID steady at late rates, although demand slackens.

CARDAMOMS.—Ceylon Malabar sorts are worth 5s. 3d. to 6s. per lb., and good fair Madras 5s., but demand is limited.

CASSIA LIGNEA, at again easier rates, fails to command business of importance. Of 1,400 boxes recently offered only 160 boxes sold at 27s. 6d. per cwt.

CASTOR OIL is in steady demand, Italian firsts, 4l.; K. B. firsts, $3\frac{3}{4}d$. to 4d. per lb.; seconds, $3\frac{1}{4}d$. to $3\frac{1}{2}d$. per lb.

CLOVES are steady. Of 775 bales Zanzibar offered in last sales, 320 bales sold at $5\frac{1}{2}d$, to $5\frac{2}{8}d$, per lb., according to quality.

CHIRETTA fails to find buyers, and nominal price is now reduced to 3d. per lb.

COCHINEAL.—The market has assumed a quieter tone at unchanged rates.

Coca Leaves.—7 bales were offered in last drug sales, 2 bags fine green selling at 4s. 9d. per lb.; remainder bought in.

Cod-Liver Oil is flat at 3s. to 6s. per gallon, according to colour and quality. Some yellow Japanese recently sold at $2\frac{1}{4}d$. to $2\frac{5}{8}d$. per lb.

CREAM OF TARTAR continues very quiet, and price has further given way to 128s. per cwt.

Cubebs are slightly dearer. Out of 48 bags offered in last sales, 4 sold at 111, per cwt.; the remainder bought in. It is stated that stocks both at Singapore and New York are very small.

ERGOT OF RYE is without change; but some very inferior has recently changed hands at very low rates.

ESSENCE OF LEMON remains in very poor demand notwithstanding existing low rates.

Galls.—About 600 bags Turkey offered in last sales were nearly all bought in at 53s. to 59s. per cwt.

GENTIAN ROOT.—Only small business at 211. 10s. per ton.

GINGER is not so firm, nearly 1,000 packages of various descriptions offered in last spice sales had to be retired, buyers refusing to pay the limits.

GUM ARABIC.—A considerable quantity of various descriptions was offered in last drug sales, and holders generally assumed a firmer tone, which buyers, however, appeared disinclined to submit to. 211 packages Turkey sorts offered were all bought in at from 5*l*. to 6*l*. 10*s*. per ewt.

GLYCERINE is without change in price, although more inquiry has set in during the last few days.

Honey. —There is a large quantity of Californian of mixed quality in the market; about 40s. per cwt. is asked for fairly good.

IODINE meets with steady consumptive business at the advanced prices.

IPECACUANHA.—Of 42 packages offered in last sales 31 sold at 2s. 6d. to 3s. 2d. per lb., according to quality and condition.

ISINGLASS.—The last sales being held so near to the Christmas holidays were of no interest whatever. The next will take place the 27th inst., when business in this article will be fairly resumed.

Jalap.—Of 30 bales Vera Cruz offered 8 bales found buyers at $7\frac{1}{2}d$. per lb.

KAMALA of good quality 10d. per lb.

LEMON-JUICE quiet at unchanged price of 171. per pipe f.o.b. Messina.

MENTHOL CRYSTALS are firmer at more even prices of 38s to 40s, per lb.

MORPHIA SALTS remain quiet at quotation of 6s. per oz.

Musk.—In last sales 4 cases Yunnan were bought in at 34s., and 20 packages grain at 30s. to 52s. 6d. per oz.

OPIUM, without actual falling off in prices, is in a very weak position, and holders show a desire to meet buyers.

OILS.—Anisced very quiet at 6s. 7d. to 6s. 9d. per lb. Cassia, 3s. 6d. to 3s. 8d. per lb. American Peppermint Oil.—A considerable business has taken place here during the last few days in H. G. Hotchkiss' oil at 15s. per lb., since when 15s. 6d. has been paid for small quantities, and 16s. per lb. is now asked. Japan peppermint oil is also dearer at 13s. per lb.

OTTO OF ROSES remains in good consumptive demand. Latest advices from Constantinople report a firm market there with steady business.

Petroleum OIL has somewhat improved in price, and is steady at following rates:—Spot, $6\frac{3}{4}d$. to $6\frac{7}{6}d$.; January-March, 6 9-16d. per gallon.

Petroleum Spirit.—Common, 7d.; refined, $7\frac{1}{2}d$. per gallon.

PIMENTA.—Stocks being very heavy, prices are easier, and fine quality is now obtainable at 2d. per lb.

POTASH.—Chlorate being scarce is in demand and difficult to obtain at 6d. per lb. Biehromate steady at $3\frac{1}{2}d$. per lb. Prussiate quiet at $9\frac{1}{2}d$. to $10\frac{1}{4}d$. per lb.

Potassium.—Bromide, in consequence of the difficulties in the way of procuring the raw material, is advanced to 1s. 8d. per lb. Iodide in steady demand at 12s. per lb.

QUASSIA WOOD.—A few tons have lately changed hands at 47, 10s, per ton.

QUICKSILVER.—A very quiet market; importers' price remaining 6l. 15s. per bottle, but is obtainable from second hands at 6l. 10s. per bottle.

QUININE has further improved in value, and at the moment the market bears a steady aspect. Howard's, in 1-oz. phial, is now quoted 4s. 8d. per oz., and foreign makes, in tins, 4s. 1d. to 4s. 3d. per oz. In last drug sales 2,000 oz. Pelletier's French make, in 1-oz. phial, were offered and bought in at 4s. 6d. por oz.

RHUBARB.—Of 145 cases offered in last sales, 59 sold at 1s. 3d. to 2s. 10d. per lb., according to quality.

SAFFRON of all descriptions, owing to the late abundant crop, is again cheaper, although prices cannot be expected to give way much further. The low rates now quoted have caused buyers to consider the present position of the article, and increased business may result before long.

SAL ACETOSCELLA, in poor demand at 8d. to $8\frac{1}{4}d$. per lb.

SALTPETRE very quiet. Barrels, 22s.; kegs, 23s. per cwt. for English refined.

SARSAPARILLA.—In last sales 80 bales Jamaica sold, fair to good, 1s. 8d. to 1s. 10d. per lb.; damages, 1s. 7d. to 1s. 9d. per lb.

Senna met with good business, and of 592 bales Tinnevelly offered 511 sold at all prices up to $8\frac{1}{4}d$. per lb.

SODA CRYSTALS have further declined, and are now quoted 2l. 15s. per ton ex ship. Bicarbonate, 7l. 15s. to 8l. per ton ex warehouse. Caustic eream, 8l. 15s. White 60 per cent., 9l. per ton.

Soy is very quiet. *China*, at 1s. 6d. per gallon, fails to find buyers.

SULPHATE OF COPPER, from reasons stated by us last month, is again lower at 171.10s. to 18l. per ton, and at these figures demand is limited.

TURPENTINE meets with moderate business at unchanged rates of about 23s. per ewt. now until April, but for May-August 23s. 6d. per cwt. is asked.

VANILLOES.—Out of 204 tins offered in last public sales, no less than 151 tins of all descriptions found buyers at average rates. Sound beans sold up to 24s. per lb. for good lengths, but some very inferior mouldy were disposed of as low as 4s. 9d. per lb.

(FROM OUR AMERICAN CORRESPONDENT.)

NEW YORK, December 31.

Owing to the dulness which usually prevails at this season, and the partial suspension of business for stock-taking and elosing up the year's transactions, there are few alterations in the eurrent prices of drugs to note. The home trade has been exceedingly quiet, while the demand for export has also been very limited of late.

The prices quoted in parentheses in sterling are the London equivalents of the rates here, all marked deductions,

discounts, &c., being taken into account.

BALSAMS.—There has been a falling-off in arrivals of Copaiba, but the market is glutted with all kinds, and prices still tend downwards: Maracaibo is selling at 35c. (1s. 7d.); Angostura, 38c. $(1s. 8\frac{1}{2}d.)$; Para, 39c. (1s. 9d.); and prime thick bright Maranham, 38c. $(1s. 8\frac{1}{2}d.)$. Canada meets with no demand, but, stocks being light, holders do not press sales, and quotations remain firm: prime is about 35c. (1s. 7d.); Peru has declined to §1.40 (6s. 8d.). Tolu.—The late advance has not been maintained, and small lots of recent arrivals can be bought at from 38c. to 39c. $(1s. 8\frac{1}{2}d.$ to 1s. 9d.).

CASCARA SAGRADA BARK.—The steady and increasing demand for this bark would seem to prove that it is coming into more general use. The genuine bark of *Rhamnus purshiana* is quoted 20c. (10\frac{3}{4}d.). The thin kind alone should be used.

Tonca Beans have experienced a great decline, and, as stocks are still abnormally large, the bottom has not been reached: \$1.25 (4s. 6d.) is the price asked for prime Angostura in first hands. Para are quoted all the way from 20c. to 50c. (11d. to 2s. 8d.).

Californian Honey is in very large supply, with more reported on the way. It meets with little attention, and is quoted nominally at $8\frac{1}{2}c$. (42s.). The erop has proved to be the largest for years.

CHINESE CANTHARIDES.—A direct shipment has just arrived, a portion of which has ehanged hands for the London market at a private figure. It may be of interest to state that Russian are quoted at \$1.40 (6s. 8d.) on the market here.

BORAX has been fairly steady of late, but, if anything, the price tends downwards. There is now no demand from England. Refined crystals are quoted 9c. (44s.); concentrated Californian, 8c. (40s.).

CAMPHOR.—Refined has again declined, this time, it is said, owing to the slackness of demand and anxiety of refiners to do some trade. Although in appearance and shape the American refined cannot eompare with English, buyers of German should give it a trial. Price in cakes, 16½c. (9d.); in 4-oz. blocks, 17½c. (10d.).

CUBEBS.—Holders here are firm in their views, and quote higher than London.

COD-LIVER OIL.—The new season's oil from Newfoundland arrives slowly, and brings from 80c. to 90c. per American gallon, according to quality (4s. 4d. to 4s. 9d.). There appears to have been a fair season's fishing.

OIL SASSAFRAS.—The price continued to decline till 45c. (2s. 1d.) was reached, but now the market, owing to the falling-off in supplies, is much firmer, and tends upwards. It has been stated that some cheap lots of oil lately offering at 42c. was adulterated, eamphor-oil, which is a regular drug in this market, being used for that purpose.

OIL SPEARMINT is only to be had in small lots, and is quoted \$6 per lb. (25s. 6d.).

BROMIDE POTASSIUM meets with a regularly increasing demand from your side, a shipment of 4 tons alone having lately been made to Glasgow. The price for quantity is 29c. (1s. $3\frac{1}{2}d$., 5 per cent.).

ROOTS.—Golden Seal is in good demand, the low price, 18c. $(10\frac{1}{2}d)$, being very tempting. Jalap is in short supply, and is tending higher; no arrivals are taking place; 16c. (9d), is the price for sound dry roots; damaged are not offering. Sarsaparilla.—Mexican has arrived rather freely, but meets with ready demand for Hamburg at $9\frac{1}{2}c$. to 10c. (5d), to $5\frac{1}{2}d$). Honduras stocks are small, and are not much

inquired for at the moment. Senega.—Prime Western is still worth 48c. (2s. 2d.) f.o.b., packed in export bales. The whole quantity collected has now come to hand, and, although stocks are large, it is not expected to go lower, especially as the spring demand will soon set in. Dark and chumpy roots can be had from 42c. to 46c. (1s. 11d. to 2s. 11d.) Serpentaria is now quoted 60c. to 65c., according to quantity (2s. 10d. to 3s.), and meets with demand at that. There are no stocks on the spot, all that is selling being dispensed by one holder in the West.

SPERMACETI is steady at present.

OIL PEPPERMINT. - Since September 1 last the shipments of H. G. Hotchkiss' brand of oil have amounted to about 900 cases, all of which is presumably of the new crop. This represents alone 22,000 lbs. of oil, and is more than half the total crop from Wayne county. A prominent dealer from Lyons states that there is hardly any oil left in the country, only some few farmers still holding their oil for over \$3, this being 12s. 5d. first cost. The following extract from a leading Wayne county journal of December 10 will, perhaps, more fully explain how matters stand:-" The unusually high price in peppermint oil (\$2.75 per lb.) has been the cause of the selling of thousands of pounds of the oil by the farmers throughout Wayne county. In some instances farmers have during the past week sold the whole result of four or five seasons' production of peppermint. They have carefully saved their oil year after year, not wishing to sell at the low prices offered for it, and desiring to wait for an advance in oil, such as has just taken place. It is said that one farmer of Arcadia sold in Lyons on Monday \$4,000 worth of oil at one time, while a large number sold quantities of oil worth from \$1,500 to \$2,000 and \$2,500 at a single sale." It may be well to explain that \$2.75 for oil "naked" would cost \$3.25 when bottled and put f.o.b. This figure is the same as 15s. 4d. on the London market; so that the very curious anomaly is observed of an article being sold in London at a lower figure than it is bringing in the districts where it is produced. So much has been said about this oil that perhaps it will be better to leave readers to try and reconcile the facts —if they can. In the market here there is very little doing, but stocks are small, and holders will be found fully aware of the expected advance when approached.

MESSRS. REYNOLDS & SELLERS, in their annual review of the drug markets, observe:-

It is many years since the produce markets were called upon to bear such heavy losses as those which have fallen upon Mincing Lane during the past twelve months, and, although ours are but minor branches, they have undoubtedly suffered also. There was a fair amount of trade doing in the carly part of the year, at prices already tending in buyers' favour, but since the spring it has been of the most retail character, prices continually giving way. Merchants to quit their consignments have been obliged to push sales, irrespective of current values, dealers at the same time buying cautiously to ease their already dear stocks, whilst consumers have given out their orders only for actual requirements, in the hopes of obtaining still cheaper quotations later on. Thus, with present keen competition, small profits have been made, and most must have shared to a certain extent in the heavy shrinkage in values which have taken place in stocks. Drugs.—With the exception of a slight spurt in the summer of a few articles connected with the cholera, and later, of a few Chinese articles on account of the war, not an atom of speculative interest has been manifest, and most articles close lower. Falls are noted in quinine, balsams, bark, borax, camphor, cardamoms, ipecacuanha, oil (castor and cod-liver), Ceylon essential oils, &c.; whilst, with the exception of quicksilver, scarcely a single article marks a permanent advance. Drysalteries.—In dyes there has been a good market for both cochineal and turmeric at higher prices; the former maintains its position, but the latter closes lower with every appearance of easier rates. Gum Arabic shows a further considerable advance, and closes firm at the best point. Cutch, galls, and gambier have all been depressed, showing a marked decline for the year. Varnish gums have met a good demand without change in value.

most instances importers have realised less this year for their consignments, the exception being good Socotrine and a few fine Zanzibar hepatic. Cape.—The market has been overstocked with common qualities, badly prepared, and packed at the Cape, which have been difficult of sale even at low rates; the better qualities have also been in moderate supply, causing prices to rule lower than for some years past. Fine hard bright opened firm at 45s., advanced to 50s. 6d. in February, since when there has been a gradual decline, closing at the lowest point, 38s. to 39s.; fair to good ditto, 35s. to 37s.; dark drossy soft, 22s. 6d. to 32s. 6d. Curaçoa.-Large quantities of common drossy in boxes have come to hand, and, being pressed for sale during the latter half of the year, have declined 20s. to 25s. Fine smooth liver show little change in value. Gourds have arrived more freely, viz., 600, compared with 200 in 1883; the quality of the last consignment (300) being very inferior, with little flavour, met with poor competition, although the prices paid were treble what would have been realised had the same aloes been packed in We quote: Gourds, good turning liver, part coarse, 51. 10s. to 71; ordinary to fair, dark coarse, capey, 60s. to Boxes, good to fine liver, 5l. to 6l.; fair to good turning liver, 55s. to 80s.; coarse frothy, 20s. to 40s. Soco-trine.—Good dry in cases have been scarce, and when offered have sold well at improving rates; fair to good colour, rather soft, recently sold at 71.10s. to 81.7s. 6d.; dark drossy to rather dark, 41.2s. 6d. to 51. 101. Hepatic.—Zanzibar have again been plentiful this year, in most instances the colour has been good, the skins, however, have contained far too much moisture, i.e., not being properly sun-dried before shipment, hence many consignments have sold at low prices. Early in the year some exceptionally fine in casks, fairly dry, of a beautiful pale mahogany colour, without skins, sold at extreme rates, viz., 91. 10s. to 101. 5s. Present values are: Skins, good fair to fine dry, 100s. to 120s.; soft, 85s. to 95s. East Indian.—Frequent arrivals in small lots have come to hand, and when of good colour and fairly dry have realised full rates. Kegs, fine pale, 7l. 10s. to 8l. 5s.; fair to good, 51. 10s. to 71. per cwt.

ANNATTO.—Roll has been scarce and much inquired for, especially the finer and more useful kinds; the common qualities are now alone available, and held for more money. Good to fine moist, nominal; fair dark, 5d. to 8d.; common (recently sold at auction) at $3\frac{1}{4}d$. to $3\frac{1}{5}d$. per lb.

BALSAM.—Canada.—Moderate demand, without change in value, viz., 2s. Capivi. - Maranham - Depressed through the year, importations being far in excess of the demand, which seems to be falling off. In January good bright opened at 2s. 5d., since when (except a better demand at about 2s. in April) there has been a gradually drooping market to the close, at 1s, 8d, to 1s. $8\frac{1}{2}d$.; dark cloudy, 1s. $6\frac{1}{2}d$. to 1s. 7d. Carthagena and Maracaibo have been in plentiful supply, and barely saleable at their relative values of $1\frac{1}{2}d$. to 2d. discount. Peru, after several fluctuations, shows at the close a decline of 1s. 6d. for the year; in January 8s. 3d., declining to 7s. 9d. in April; the market was then cleared for Continental account of the cheap parcels, prices immediately recovering to 8s. 6d. During the summer and autumn this advantage was lost, 7s. being accepted in November, and at the last drug sale a parcel was sold at 6s. 3d. to 6s. 4d. Privately holders ask 6s. 3d. Tolu.—Obtainable in January at 2s. 3d., it declined to 1s. 9d. in August, but closes steady at 1s. 11d. to 2s. per lb.

BARK.—Cascarilla.—Irregular, owing to the uncertainty of supplies: the first consignment in January sold, good at 35s. or 12s. 6d. decline; this, however, was recovered in April. and in September sales were made up to 50s. 6d. Lately a single bale fetched 62s. per cwt., but at the moment we are without supplies and unable to quote. Peruvian.-Crown (druggists' sort).—There has been a good general demand for the large quantity brought to auction during the year; prices, however, have ruled in buyers' favour. After a lapse of two years (owing to difficulties in South America) consignments of Guayaquil have again arrived, the first being offered in sale the latter end of August. At first high prices were asked, which for a time restricted sales; lately, however, holders having given way, there has been a better demand, and large sales made as follows--fair to fine long, mossed, ALOES.—All kinds have been more or less plentiful, and in broken, 8d. to 1s. 2d.; ditto, grey and brown, part broken, 8d. to 1s. 2d.; ordinary, 5d. to 6d. per lb. East Indian.—Peruvian.—Cinchona (Quinine sorts).—The importations this year show a great falling-off, being some 30,000 bales short, chiefly owing to the low rates obtainable, and losses on South American in competition with East Indian. Prices opened dull and casier, but, owing to a large fire in America in March, when a quantity of bark and quinine were burnt, there was more demand at firmer rates, subsequently leading to a large spot business to replenish stocks, some 20,000 to 25,000 bales changing hands. Since the turn of the half-year, however, prices have gradually given way, the failures in London and Milan during August having a depressing effect on this and its offspring, quinine. The market closes steady.

BEANS.—Calabar.—With little inquiry, this article has been almost a dead letter this year. The low price has stopped importations for the time being, and some improvement in value has taken place. Obtainable in January at 3d, holders now ask 5d. to 6d. Tonquin.—Para.—Large quantities of inferior foxy have depressed the market, and, on being pressed for sale, have realised lower rates, showing a decline for the year of 1s. Fine quality also is easier. Bold, dark, crystallised, 2s. 6d. to 3s.; inferior, part foxy, 1s. 3d. to 1s. 6d. Angostura, in good supply, but well held, 6s. 6d. to 7s. 6d. per 1b.

BORAN.—With the commencement of the year English manufacturers reduced their price from 60s. to 40s., probably to depress the market for Californian refined, which was beginning to arrive in large quantities. The present quotations, viz., 40s. to 41s., for English refined, have remained stationary during the year. Californian semi-refined has been shipped to Liverpool, selling at 33s. to 37s. per cwt.

CAMPHOR had a temporary rise during the cholcra epidemic. It was purely speculative, and ample stocks, to which were added in August 3,000 tubs per *Ecangeline*, told on purchases for a rise. In January Japan opened flat at 59s., gradually falling (with little business doing in the meantime) to 52s. in June. During July a speculative demand sprang up, prices advancing rapidly, until 60s. was paid within the month, but eased towards the close to 57s. 6d. In August with arrivals the market became dull. A fair business was done in the autumn at 52s. 6d. to 54s., closing steady at the latter. China, 52s. to 52s. 6d. per cwt.

CARDAMOMS.—Owing to large supply from Ceylon, prices for all descriptions show a decline for the year of 1s. 6d. to 2s. The exports from Ceylon are this season in excess of any previous. The trade has not increased so much as statistics would lead one to suppose, the packages (chiefly from Ceylon) being much smaller than formerly—some but a few lbs. in weight. Closing quotations are:—Alleppi.—Fair to good bold bright, 4s. 6d. to 5s.; ditto, brownish, with some green, 3s. to 4s. Ceylon.—Native, long brown bold plump clipped, 2s. to 2s. 6d.; ditto, shelly, 1s. 3d. to 1s. 9d.; Malabar kind, good to fine pale heavy clipped, 5s. 3d. to 6s. 3d.; brown, part shelly and unclipped, 3s. to 4s.; Madras kind, good to fine pale heavy, 5s. to 5s. 9d.

Madras.—Medium to good fair, part shelly (neminal), 4s. to 4s. 9d. Mangalore.—Pale heavy, bleached, 6s. 9d. to 7s.; brownish, light, 4s. 6d. to 5s. 6d. Malabar.—Small plump heavy clipped, 5s. 3d. to 5s. 6d.; medium to good brownish, unclipped, 4s. to 5s. 7ellicherry.—Fair to good bold pale, clipped, 3s. 6d. to 5s. 3d. Seeds (various), 4s. 9d. to 5s. 9d. per lb.

CUBERS.—The quality of many parcels to hand this year has been anything but good; some have been prematurely gathered, arriving small and shrivelled, whilst others have been mixed with spurious berries. In America one parcel (19 bags) of direct import was rejected at the Customs and shipped to this country. Opening in January at 14L, with an active demand, 18L was paid within the month and higher prices asked; 20L was paid several times during the spring. On arrivals, however, prices gave way, a parcel of inferior quality selling in sale in July at 9L. 15s., good merchantable being offered at about 12L. During the autumn there has been a downward tendency, closing with sales at 9L 10s. to 9L 15s. per cwt. for fair greyish.

DRAGON'S BLOOD.—Low qualities have been difficult of sale at lower rates; for the better descriptions there has been a moderate demand, special lots at all times meeting good competition and realising full value. Lump.—Fine bright

soft, 8l. 10s. to 9l. 10s.; good, 5l. to 7l.; ordinary to fair bricky, 60l. to 80l. Reed—In moderate supply; good to fine bright, 8l. 10s. to 11l.; dark, 5l. to 7l. per cwt.

ERGOT OF RYE.—The market has been overstocked with large quantities of small weevily Spanish and Russian. Common qualities bave fallen considerably, and good merchantable are $1\frac{1}{2}d$. to 3d. below January rates. Spanish.—Medium to good bold is worth 9d. to 1s.; low wormy to fair small, 5d. to 7d. Russian.—Clean, $6\frac{1}{2}d$. to 7d. per lb.

GUINEA GRAINS.—With increased supplies this season importers have had to submit to lower rates. Prices declined from 37s. 6d. in January to 21s. 6d. in May, but became steadier in the summer as imports ceased, closing quiet at 27s. to 28s. per cwt. for good clean bright.

GUMS.—Ammoniacum.—There have been again increased supplies this season, with a good demand for consumption at a decline of 10s. on January rates. The last consignent sold as follows:—Good pale drop, 45s. to 46s. 6d.; fair drossy block, 30s. 6d. to 32s.; fine siftings, 21s.; blocky, seedy pickings, 6s. to 10s. per cwt.

Asafætida.—The imports this year have been just double the quantity entered in any of the previous five years; the whole arriving during the early months of the year caused great depression. On account of the low prices obtained for a parcel in April, importers, to strengthen the market, held over until the autumn about 450 eases, and when sold realised a considerable advance compared with spring rates; the January sale of 400 cases sold without change; 20s. decline, however, took place in February, when 200 eases were sold, and a further decline of 10s. in April, on 367 cases being disposed of. In October 130 cases sold at a recovery of 10s., although not much higher than re-sales privately, and 300 cases in November at a further recovery of 10s., thus closing 10s. lower than opening rates, viz.: fine bold pinky almond in block. 551. to 601.; good fair ditto, part dark and soft, 47s. 6d. to 50s.; inferior stony, 30s. to 40s. (nominal)

Benjamin.—Siam.—The market has been freely supplied with small consignments of various qualities; prices show little change of importance, although the tendency is still in buyers' favour. We quote: Good free almonds, part blocky, 32l. to 35l.; small dark woody, mixed with dross, 19l. to 231.; ditto inferior, very drossy, 121, to 151. Sumatra. Fine white gum, well packed, has again been exceedingly scarce, the total imports of this quality being under fifty cases, which have been eagerly competed for, selling at 101. 10s. to 111. 12s. 6d. Penang and false-packed seconds have been in good demand at steady rates, especially the former when in good condition. Present prices are:-Fine seconds, well packed, none here: good second (Penang kind), slight drossy at ends, 81.5s. to 91.; ditto (Sumatra), about one-fourth false packed with common gum, 71. 10s. to 81.; fair ditto, more or less false packed, woody sides and ends, 51. to 61. Palambang.—The low prices realised for fourths about a year since has had the effect of stopping importations, which have fallen off considerably of late: current quality fourths have improved from about 40s, to 50s., but other kinds are unchanged. There have been no firsts among the consignments this season. The following are the closing quotations: - Fair to good glassy seconds, 100s. to 120s.; good medium fairly-packed thirds, 60s. to 65s.; fourths, 47s. 6d. to 55s.; ordinary, 35s. to 40s. per cwt.

Elemi.—The noticeable feature of the year was the sale in the autumn of the balance, about half (8 tons) of the consignment ex Leen XIII., which had been here about fifteen months, and was sold on importers' account at 19s. to 25s. (and with much effort to obtain even this) for yellow to fair white, after three times the amount had been refused for some of it. There has been a drooping market throughout, closing 30s. lower; good to fine white, 32s. 6d. to 35s.; yellow drossy to fair, 22s. 6d. to 30s. per cwt.

Gamboge.—Current qualities show a decline of 20s. to 30s.; coarse ricey pipe has been difficult to sell even at very low rates. Present quotations are:—Fine pipe, part blocky, 15l. to 15l. 15s.; good fair ditto, blocky, part drossy and damp, 13l. to 14l. 5s.; coarse, drossy to good pickings, 9l. to 12l. per cwt.

Myrrh.—We are able to quote an advance of 5s. to 10s. on medium, and 20s. on fine qualities, viz., dark to pale bold

selected, 7l. 10s. to 9l.; pickings to siftings, 70s. to 95s.; ungarbled Aden sorts, 92s. 6d. to 110s. per cwt.

Olibanum.—Imports for the year are only just half the quantity received during 1883; deliveries have also fallen off, leading one to suppose consumers were heavy purchasers on the falling market, and still hold stocks. Although the market has been steady, with an upward tendency throughout the year, it is only within the last three months that prices show a marked advance of some 5s. on the better descriptions of drop. For the year the advance on drop is 7s. 6d., and 1s. to 2s. on garblings and siftings. Fair to good drop, 37s. 6d. to 42s. 6d.; siftings, 12s. 6d. to 14s.; garblings, 13s. 6d. to 16s. per cwt.

Tragaeanth.—Owing to a resolution proposed and carried in the sale-room in the early autumn that this article should cease to be included in the drug sales, but should be sold separately on the following Friday, it has almost ceased to be sold at auction, the sales on Friday not being satisfactory; this, to a certain extent, has had the effect of strengthening the market. From the commencement of the year until the autumn prices showed a gradual decline, parcels being continually forced in sale at lower rates, the decline amounting to 3l. on fine gums compared with January rates. With a good demand in October, partly for America, about half the decline was recovered, the market closing quiet but steady, viz.—Syrian, firsts, 8l. 10s. to 9l.; seconds, 7l. 10s. to 8l.; thirds, 6l. to 7l.; fourths, 7s. to 100s.; hog, inferior to good, 40s. to 60s. per cwt.

HONEY.—The collection has been larger than for many years past in England and all the chief bee countries of the world, and this article has sold at extremely low rates. The bulk of the parcels in first hands has now been realised, thus easing the market and slightly raising prices. Quotations are about 10s. lower than in January last, viz., Californian, fair brown to good pale, 35s. to 45s; Chilian ditto, 27s. 6d. to 37s. 6d.; Jamaica, 30s. to 35s.; Australian, 35s. to 42s. 6d. per cwt.

IPECACUANHA.—With ample stocks in second hands, and no demand from the States, the public sales have gone off very quietly at continually drooping prices. A few picked bales have sold well at 4s. 6d. to 4s. 10d., but current quality shows a decline for the year of 1s. The present low stocks here would warrant higher prices, but direct shipments have gone to America and the Continent, thus enabling them to do without our market to replenish their stocks for the time being, and keeping prices low here for want of demand. We quote: good to fine bright, 2s. 9d. to 3s. 3d.; ordinary to good fair, 2s. 3d. to 2s. 8d. per lb.

JALAP.—With only a moderate inquiry and a large stock, prices gave way during the first nine months of the year, selling at 3d. to 4d. decline, but during the last three months there has been more demand, especially for good quality, and a slight recovery has taken place, closing: good heavy dark sound, 8d. to $8\frac{1}{2}d$.; inferior light split, 7d. to $7\frac{1}{2}d$. per lb.

Musk.—Tonquin.—There have been considerable fluctuations during the year. The market has been regularly supplied, and generally has met with good competition. Fine quality declined 15s. during the first half, but has since recovered 10s. Yunan has declined 5s. to 10s. Tenquin, pile 1, fair to good medium shape, part slightly bally and damp, very thin skins, 85s. to 87s. 6d.; ditto thicker skins, 75s. to 77s. 6d.; pile 2, genuine but hard, some skinny and unsightly, 35s. to 47s. 6d.; pile 3, rough part hard, damp and doubtful, 20s. to 22s. 6d. Yunan, medium to bold, part damp, hard, and doubtful, 32s. 6d. to 37s. 6d. Grain, good to fine, 55s. to 75s.; inferior, 30s. to 50s. per oz.

OIL.—Castor.—The market opened quiet at $3\frac{1}{2}d$. for good seconds, with large stocks in the chief centres, and a quantity of Coconada, useful only as machine oil, near at hand. Little pressure to sell was noticed for the first three months; during May forced sales at auction took place, immediately reducing prices; and in the following month $\frac{1}{2}d$. decline was established, whilst fair Coconada sold at $2\frac{1}{4}d$. to $2\frac{2}{8}d$. Although prices fractionally recovered immediately afterwards, the market has remained ever since in a dull state, in sympathy with Liverpool, where prices also are low, and quotations come so many sixty-fourths of a penny. It was some time before sixteenths were recognised here, and surely this is quite near enough for such an article. Fine druggists' firsts

sold in public sale in June at $3\frac{3}{8}d$. to $3\frac{1}{2}d$., the latter for KB,l, the lowest price touched for many years. Present quotations are: Calcutta, good to fine firsts, $3\frac{1}{2}d$. to $3\frac{3}{4}d$.; fair to fine seconds, $3\frac{1}{16}d$. to $3\frac{3}{16}d$. per lb.

Cod Liver.—Norregian.—With better results at the fisheries than for the previous two years imports have been larger, and prices once more tend towards a reasonable basis. Owing to the decline in fine there has been some pressure to realise old yellow oil, which has recently been sold "without reserve" at 3s. 6d. to 3s. 9d. Present quotations show a decline for the year of 7s., and are as follows: fair to good pale, 5s. to 6s.; yellow to straw, 3s. 6d. to 4s. Nenfoundland.—There has been a moderate supply; prices, however, have followed in the train of the former, closing at 4s. 6d. to 5s. 6d. per gallon. Japan.—The import and sale of this description have been checked by the better supply and decline in value of Norwegian. Sales were made in the spring at $5\frac{1}{2}d$. to 6d. per lb., but we have heard of no sales recently.

OILS .- Essential .- Aniseed .- Opening firm, with a good business in January at 7s. 6d., became flat in February at 7s. 3d., on sales to arrive being made at 6s. 6d. c.i.f. During the spring spot sales were made with difficulty, and the market rapidly fell, 6s. 6d. being accepted in June: at this price, however, there were few sellers, and in September 78. was asked, but buyers holding off the market closed flat at 6s. 10d. Cassia.—In January business was done at 3s. 10d., rising to 4s.; but, with an active demand and small stocks, prices advanced to 4s. 6d. during the succeeding two months, sales for arrival being made at 4s. $0\frac{1}{2}d$. c.i.f.; from this point a relapse took place, and there has been a flat market since, closing quiet at 3s. 8d. Recently some old import sold without reserve, "all faults," at 2s. 10d. to 2s. 11d. per lb. Cinnamon in moderate supply with a fair demand, prices being 3d. to 6d. lower, closing steady at 1s. 3d. to 1s. 9d. Cinnamon Leaf has remained steady throughout the year with retail sales at $2\frac{1}{8}d$. to $2\frac{1}{4}d$.—Citronelle, in common with all Ceylon grass oils, has been imported far in excess of requirements, and suffered a gradual decline, opening at $1\frac{7}{8}d$., closes quiet at $1\frac{1}{8}d$. per oz. Cajaputa.—Rather better prices have been made this year for the small quantity received, 3s. 3d. to 3s. 6d. per bottle. Ginger Grass.—The lower qualities have been difficult of sale at easier rates, but good quality has sold well: fair to good, 2d. to 4d. per oz. Lemon Grass opening at $1\frac{3}{4}d$. closes quiet at $1\frac{1}{4}d$. per oz. Peppermint.—American.—H. G. Hotchkiss'.—With a moderate demand and little offering, the market, which opened at 12s. 3d., advanced to 13s. 6d. the following month, remaining steady for some time. Owing to reports of a probable short crop, circulated from the States, prices advanced, with a large business, touching 16s. in July; but, on lower offers to arrive, gave way 2s. to 2s. 6d. from the highest point in the autumn. The market closes quict but steady at 14s. 6d.; LB. nominal, 14s. English.—The crop this year was again largebut in consequence of the better rates ruling for American, good prices were obtainable. Japanese.—There has been a fair demand at rather better prices, viz., 9s. to 10s. Menthol after selling at 32s. 6d.; with dark old at 23s., closes firm at 37s. 6d. per lb. for good merchantable quality, with moderate

QUICKSILVER.—Market fluctuated between 51. 5s. and 51. 10s. until the autumn, when the official price was constantly raised, thus causing much activity in the market, with a corresponding advance. There is a margin between the official quotation and second-hand parcels, holders being desirous of securing profits. Present quotation, the highest of the year, is 61. 15s.; from second hands, however, there are sellers at 61. 12s. per bottle.

RHUBARB.—With unusually heavy imports our stocks are just double the quantity held at the close of 1883. Medium sorts of Shensi and high-dried have been plentiful, whilst good Canton has been scarce. Prices were maintained during the early spring, but gradually gave way on arrivals, closing 4d. to 6d. lower. We quote: Shensi.—Medium to bold, good coat and pinky break, free from dark or spongy, round or flat, 2s. 9d. to 3s. 6d.; ditto, smaller, fair coat and break, part spongy, 2s. 3d. to 2s. 6d.; pickings, 1s. 6d. to 2s. High-dried.—Medium to bold, good coat and break, 1s. 5d. to 1s. 6d.; small ditto, 1s. 2s. to 1s. 4d.; bold rough horny, 9d. to 11d. Canton.—Medium to bold, good coat and break, 1s. 9d. to 1s. 11d.; small ditto, 1s. 5d. to 1s. 6d. per lb.

ROOTS.—Colombo.—A small parcel (part of a consignment of 400 hags) of fine hright new sold up to 43s. in January, since when there has been no fine offered. Moderate supplies of dark ordinary, together with a large quantity of old import, have kept prices low for this quality throughout the year. Dull ordinary to fair, 17s. 6d. to 22s. 6d. Galangal.—Although held at 26s. at the commencement of the year, declined on sales to 21s. 6d. in January; with large arrivals and pressure to sell lower prices were accepted, closing quiet at 16s. 3d. to 16s. 6d. Gentian.—Lower prices have ruled, closing at 5s. to 7s. 6d. decline, good now being ohtainahle at 21s. 6d. to 22s. 6d. Orris.—Prices are lower: Megadore, 22s. 6d. to 25s.; Italian, 25s. to 30s. per cwt. Seneka.—Although 2s. 3d. was accepted in the summer, the market closes steady at 2s. 4d. to 2s. 5d. per lb., which were the opening prices.

LEAVES.—Bucho.—The market has again been flooded with short round yellow, and lower prices have heen accepted, viz, 13d. to 2d. There are no good green here. Long narrow have met a retail demand at steady rates, viz., 1s. to 1s. 2d. Coca.—There has been an active demand for the small quantity available, owing to some new discoveries relative to the properties contained in these leaves. In January sales were made at 1s. 6d., in May at 3s. 1d., and at the last drug sales 6s. per lh. was obtained for similar quality.

SARSAPARILLA.—Honduras.—High prices have ruled, good merchantahle quality heing held at one time at 2s., closing, however, at 1s. 8d. to 1s. 10d. Jamaiea.—Medium quality has sold down to 1s. 5d., with fine at 1s. 3d., hut at the close quotations are higher, viz., fair to good, 1s. 8d. to 1s. 11d. Small consignments of red (wild) continue to arrive, and realise 1s. to 1s. 3d. Lima was in good supply early in the year, and sold at low rates, viz., 1s. 0½d. to 1s. 1d., hut on reduced receipts became firmer, selling in the autumn at 1s. 4d. At present there is none here. Mexican.—Sales have been made during the year at slightly lower rates, viz., 4¾d. to 5d. At the close, with less offering, rather more money is asked. Guatemala.—Small lots of fine hright mealy have changed hands at 1s. 4d. to 1s. 6d. per lh.

SEEDS.—Ani.—China Star.—New arrivals of good quality early in the year met hut a retail demand. At first sales were made at 6l., hut during the spring declined to 5l., and subsequently to 95s., the market closing steady at the latter. Italian, Spanish, and Malta.—Moderate supplies have come to hand, and steady prices paid for consumption, viz., 35s. to 38s., according to quality and description. Russian, 28s. Cumnin show little change in value. Malta.—Fair to good are worth 25s. to 27s. 6d.; Syrian, 22s. to 24s. Fenugreek.—A further decline has occurred in this seed, owing to the unusually fine and heavy crop of Mogadore; opening in January at 8s., declined during the spring to 7s. 3d., at which a large business was done; subsequently, with less demand in the autumn, lower prices were accepted, viz., 5s. to 5s. 3d. per cwt., closing quiet.

SENNA.—Alexandria.—For first picked qualities good prices have been realised, viz., 10d. to 1s., hut sorts and inferior mixed with Mecca have met a dragging sale at rather Sower rates. Good sorts are worth 6d. to 7d.; pods, 3d. Transevelly.—With ample stocks in second hands, there was little inquiry for this article during the spring and summer. Ahout 3,000 bales new crop have arrived since the autumn (500 in excess of last year), containing a variety of qualities to suit all requirements, and have sold with fair competition, although the extreme prices of last season have not been paid this year. We quote: Good to fine hold green leaf, 5d. to 1s.; good middling, 3d. to $4\frac{1}{2}d$.; inferior to fair, $1\frac{1}{2}d$. to $2\frac{1}{2}d$. per 1b.

TAMARINDS.—West India.—With only a moderate crop this year, rather better prices were obtainable for the first shipments, viz., 17s. 6d. to 20s. for good Barhados, but on further arrivals in May less money was accepted, viz., 15s. to 17s. 6d.; heing without supplies in first hands, quotations are mominal. East Indian have met a slow sale at 9s. 6d. to 10s. per ewt.

VANILLOES.—During the spring and summer prices had a downward tendency, especially for the medium lengths, but as the year advanced and the new crop arrived fair prices have heen realised for the latter. A small parcel, said to

have been the first grown in Madagascar for commerce, was sold in public sale in the spring; the quality was fairly good, but the beans were loose and of mixed lengths, thus not properly sorted for this market; the price realised was 14s. Present quotations are: Mauritius.—Good fair to fine plump heans, unsplit, full flavoured needle or cotton crystallised, 8 to 9 inches, 27s. 6d. to 30s.; 7 to 8 inches, 22s. 6d. to 27s. 6d.; 6 to 7 inches, 17s. 6d. to 22s. 6d.; $4\frac{1}{2}$ to $5\frac{1}{2}$ inches, 13s. to 16s. 6d.; ordinary dry, old, or mouldy, 5s. to 10s. per lh.

COCHINEAL.—At last the tide seems to have turned in favour of hetter rates. The low prices have checked cultivation, our imports showing a decrease of 20 per cent, for the year, whilst the consumption is maintained, thus reducing stocks. The market for the first six months was very changeable, every slight advance bringing out sellers eager to realise the smallest profit; thanks, however, to a controversy in the press on "Natural v. Aniline Dyes," attention was called to this once expensive article. With a hetter demand, part consumptive and part speculative on account of the decrease in receipts, there has heen a steady advance since the early autumn. Since January prices show an advance of 3d. to 4d. Present quotations are:—Teneriffe silvers, 1s. 2d. to 1s. 4d.; rosy hlacks, 1s. 3d. to 1s. 6d.; grey hlacks, 1s. 3d. to 1s. 5d. per lh.

Galls.—China.—The heavy imports of 1883, combined with moderate supplies this season, have again affected prices unfavourably. The opening price of 59s. was not long maintained, 1s. less being accepted in January; sales on the spot now hecame difficult, on account of the new crop being offered at much less money. The spot price rapidly declined to 50s. in July. On the outhreak of war with China a speculative demand sprang up, 52s. 6d. being paid in Septemher, and small sales up to 54s. in the autumn, since when the market has become quiet, little husiness having been done even at the reduced and closing quotation of 50s. Japan.-Larger supplies than usual have come to hand, and realised 2s. to 3s. helow the price of China. Turkey.—There has been a gradual decline throughout the year, with a moderate consumptive demand and ample stocks. Opening at 70s. for good hlue, close at 57s. 6d.; blue and green, 50s. to 52s. 6d.; white, 40s. to 45s. per cwt.

GUM ARABIC.—This article rose 50 per cent. during the first month of the year, after having risen cent. per cent. in 1883, and such prices for every sort remained high during the entire year. Although forced sales of Turkey and Gedda took place in Fehruary at easier rates, the hulk of the decline was soon recovered. During the spring and summer supplies of the various kinds for a time depressed the market; hut they have gone into consumption, and to-day every description of soluble gum is higher than for many years past. Australian opened at 35s. for good, advanced to 44s. during January-February, hut fell on large arrivals, being sold down to 27s. 6d. in May; it has been gradually getting scarcer. Good hold frosty drop is now worth 42s. 6d. to 45s. Barbary.—In January 47s. 6d. was accepted for good, and advanced in sympathy with other sorts to 66s in February, hut became easier and declined to 50s. in April May. The accounts vary as to this crop; it is supposed, however, to be only an average one. During the past month business has heen done at 62s. 6d. to 65s. for fair to good. East Indian. -This kind has met with more competition than any other, especially recently; really good pale sorts have been scarce, and always fetched extreme rates. In January good sorts sold at 57s. 6d., rose 10s. during the month, and a further 6s. in February; later in the month, on a parcel being pressed in public sale, the entire advance was lost. The market hecame firmer and improved during the early summer, eventually selling at 65s. in August, and during the autumn up to 77s. 6d. to 80s., closing firm. We quote: Fair to good bold frosty sorts, 75s. to 80s.; medium to hold reddish ditto, 70s. to 72s. 6d.; good clean chips nominal, 62s. 6d. to 67s. 6d.; pickings, 40s. to 50s.; dusty to clean siftings, 45s. to 52s. 6d. Madras.—This sort, which in years gone by scarcely paid freight and charges, and came only in small quantities (heing partly insoluble), has been largely imported this year, the bulk of the gum under our East Indian statistics heing of this description, estimated imports heing 300 tons. The first important arrival took place in April, when pale

sorts sold at 32s. 6d to 35s., gradually rising during the summer to 47s. 6d. to 50s. in September; on heavy arrivals, and a desire on importers' account to realise, a deeline took place; nearly 100 tons were offered in one sale in October, the better qualities selling at 34s. 6d. to 36s. 6d., and sub-equently at slightly easier rates, but prices close steadier, viz., pale glassy drop, 37s. 6d. to 40s.; dark ditto, 30s. to 32s. 6d.; siftings, 25s. to 30s.; pickings, 10s. to 20s. Turkey Sorts .-With a good American demand and general inquiry, part speculative, the price of good sorts advanced from 82s. 6d. to 112s. 6d. in January. A large pareel sold without reserve in public sale in February, the quality of which, although dusty, was certainly fair, realised 79s. to 81s. Immediately after the sale business was effected privately at 90s., and during the summer prices varied but little, say between 88s. and 92s. 6d. In November a good business was done for export at 92s. 6d., rising to 100s, and subsequently prices have advanced to 112s. 6d., with fair at 110s., and fine at 120s. Picked.—Present quotations are: First white, 91. to 91. 10s.; seconds, 7l. 10s. to 8l. 10s.; thirds, 5l. 10s. to 6l. 10s. Talca has followed Turkey, 50s. being accepted in January, but with an active demand advanced to 72s. 6d. during the same month. Forced sales at auction in February destroyed the advantage gained, although during March sales were effected at higher rates, viz., 57s. 6d. to 60s. Prices ranged between 55s. and 60s. until late in the autumn, when, in sympathy with Turkey, an advance of 7s. 6d. was established, closing 65s.: Geziralı, 70s. to 75s. per cwt.

GUMS (VARNISH),—Animi.—Zanzibar.—There has been a good supply of this description, some consignments containing a large proportion of fine pale gum. In two instances, specially selected cases have realised the extreme price of 241. 10s. Medium to bold pale and amber, 191. 10s. to 211.; small to medium amber and red, 131. to 151.; pale pea and bean, 7l. to 7l. 10s.: red ditto, 5l. 10s. to 6l. 5s. Demerara. Supplies in small consignments have kept the market well stocked; lower prices only have been obtainable, closing quotations being: -Bold medium and small pale and yellow scraped, 10l. to 11l.; ditto red, 7l. 15s. to 8l.; good half-scraped sorts, nominal at 6l. to 7l. 10s. Madagascar.—Only two consignments of importance have arrived this year, the one in the spring of 132 packages, the other in the autumn of 47 packages. Medium and bold pale and amber, 91. 10s. to 91. 12s. 6d.; ditto, red to reddish, 7l. 12s. 6d. to 8l. 15s.; red to yellow pea and bean, 5l. to 5l. 15s. per cwt.

Manila.—Hard.—The feature of the year has been the large supplies of part hard, part soft, yellow honeycomb Macassar sorts, 1,500 cases being disposed of in public sale. The quantity of good hard serviceable gum has been less plentiful, and prices close 2s. to 3s. higher. We quote:—Medium to bold amber to pale scaped, 42s. 6d. to 55s.; ditto, amber and brown ditto, 35s. to 40s.; fair to good half-seraped sorts, 30s. to 35s.; pale chips and nobs, 22s. 6d. to 27s. 6d.

Sierra Leone has been more plentiful than for some years past; few pareels of rough, however, have contained a fair proportion of bold gum, which has made fine qualities relatively dearer, although eonsiderably lower than opening rates. Cleaned shows a decline of 3d. to 5d. as in quality. We quote:—Firsts, $1s.4\frac{1}{2}d$. to 1s.6d.; seconds, $10\frac{1}{2}d$. to 1s.1d. per lb.

Damar.—The statistical position remains unaltered, and the change in value has consequently been slight. Our stock still consists largely of dust, chips, and pickings, leaving but a moderate supply of good quality available. Batarian closes firm at 90s. Singapore.—Pale sorts are scarce, and worth 80s. to 85s.; yellow, dusty, 65s. to 70s.; inferior ditto and pickings, 35s. to 50s. per cwt.

Konric.—Owing to the large proportion of low quality included in our stock in the early part of the year, and only a small quantity of good to fine being amongst the early imports, an advance of 15s. to 30s. was paid for all qualities over 80s., and 5s. on medium, whilst common sorts gave way 5s. to 7s. 6d. Present quotations are easier. Fine dial, scraped, 9l. to 12l.; medium to bold, pale brown to amber, ditto, 5l. to 7l.; good lard brown ditto, 80s. to 95s.; ditto, medium, half scraped, 65s. to 72s. 6d.; ditto, coated, part soft, 45s. to 55s.; good brown, coated to pale nobs, 47s. 6d. to 77s. 6d.; chips, 45s. to 65s.; dust, 7s. 6d. to 20s. per cwt.

Sandrac.—Although imports are less this year than last, and consumption continues good, there has been a gradual decline, closing 20s. to 25s. lower than in January last. Pale glassy tear, 95s. to 5l.: good medium specky yellow, 57s. 6d. to 72s. 6d.: pickings, 25s. to 30s. per ewt.

TURMERIC.—There have been frequent and wide fluctuations in both Bengal and Coehin kinds, whilst Madras has been steadier at high prices. Bingal.—Closed at 28s. Cuchin.

In December, however, the advance was lost, sales at auction being made at 10s. 3d. to 10s. 6d., good finger making 23s. 6d. Madras.—Medium to bold finger, 27s. to 29s. per cwt.

SHELLAC.—The past year will long be remembered by the unprecedented large public sales "without reserve," holderbeing unable to quit their stocks in any other way; lower prices, in some instances lower than for twenty years past, general depression, characteristic of a falling market, and last but not least financial difficulties. There seems to be no doubt that the past season's out-turn of lac was less than that produced in 1882-3, on which basis the advance in the autumn of 1883 took place, yet few calculated or knew that there were still 15,000 to 20,000 cases of the old make lying in India at the close of the season; on these being shipped and arriving in this country (part, chiefly fine orange, originally intended for America), on an already overstocked market. with new season's make still to come, combined with trade difficulties in the States and forced sales of fine orange here (on their account) caused the market to give way early in the spring, since when it has never recovered. With a few slight favourable fluctuations of but short duration prices elose at the following decline, viz.:-Fine orange 50x., second orange 27s. 6d., garnet 17s. 6d., button 15s. to 20s. per cwt. During the past few months the deliveries have been unusually heavy, and for the year show a considerable increase over previous years, thus reducing stocks by several thousand cases, compared with what they were in the summer. In the autumn a large business was done, both spot and forward, for home eonsumption, buyers eonsidering prices sufficiently tempting to lay in stocks; but for export no increase in the demand was apparent, except, perhaps, a few special marks for America.

The following Stocks of Drugs, &c., were reported in the Port of London on December 31:—

	1884	1833		1884	1883
Aloeses	3,624	3,152	Gum (cont)—		
"kegs	32	6	Asafætida pkgs	427	402
"gourds	278	78	Benjamin "	1,221	2,154
Aniseed Star chts	207	214	Damar ,,	3,550	3,550
Arrowrooteks	10.496	8.089 6.440	Galbannm "	31 182	19
,, bxs & tins	5,670	297	Gamboge,	96	71
Balsamcks, &c.	587	201	Guaiaeum " Kino	156	139
Bark, Medicinal cks & cs	3 672	3.731	Kowrietns	662	877
anna for	76.828	95.933	Masticpkgs	250	113
Boraxpkgs	525	796	Myrrh, E.I.	103	
Bees' waxbls &	020	. 100	Olibanam "	5.422	6.222
Stills	873	945	Sandarach "	1.271	931
" eks & es	691	676	Tragacanth "	1.336	1.450
cakes	7		Indigo, E.I chts	12.158	9,044
Wax, Jap. vgtbl. pk	1,323	2,552	Spanish, srns	2 831	2.281
Camphorpkgs.	8,413	9.882	Ipecac cks & bgs	175	200
Cardamomschts.	513	374	Jalapbls	289	301
Cochineal, Hndras.	'		Nux Vomica pkgs	1,099	585
srns, &c.	183	201			
Mexican .,	314	604	Oil—		
Teneriffe "	8,860	9,951	Castorcks	476	477
Coce. Ind. bgs, &c.	446	322	_ ,,cs	8,058	9,871
Colombo root pkgs.	1,643	1,677	Palmtus	67	36
Cream tartarcks	52	51	Cocoanuttns	3,340	5,195
Cubcbsbgs	214	96	Olivecks, &c.	785	1.464
Dragonsblood chts	158	156	Aniscedcs	366 162	113 159
Galls, China & Jap.	1.529	2,923	Cassiaes	2,457	2,452
CS Duran also	3.010	2,430	Rhubarbchts	1.079	442
Trký & Prsn sks	3,010	2,430	Saltpetre, Nit. Pot.	1,010	442
Ammoniae pkgs	228	220	tons	3,515	2,365
Animi & Copal	240	220	Nitrate Soda	2,368	1.277
pkgs	8,560	9,605	Sarsaparillabls	477	749
Arabic, Barbary	0,000	, 0,000	Senna bls, &c.	2.711	2.607
pkgs	1,677	1 094	Shellac, total chts	46,708	33 944
Turkey "	1,770	2,773	Turmeric tons	947	486
E.I ,,	2,091	1,450	Vermilion chts	5	17
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,			

Monthly Price Current.

The prices quoted in the following list are those actually obtained in Mincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusions respecting the prices at which articles are offered by the Wholesale Firms.

CHEMICALS.		T.	ast M	ontl	,	т	his M	onth	,
ACIDS—		s.	d.	s.	d.	S.	d.	s.	đ.
Acetic	per lb.	0	2½ to 5	0	9	0	2½ to	0	9
glacial	,,	0	6	1	0	0	6	1	0
Benzoic Sublimate . Ex Gum	per oz.	0	0 6}	3 0	6	0	0 6}	3 0	6 0
Citric	***	1	49	1	51	1 3	4.	0	0
Gallic	per cwt.	3	2 · 6 ·	1 3 7	6	4	2 · · · 6 · · ·	3 7	6
Nitric	per lb.	0	3	0.	31	0	3	0	31
Oxalic Sulphuric	,,	0	6 03	0	0	0	6 0}	0	0
Salicylic	"	6	9	9	6	6	9	9	6
Tannic	"	1	4 8	2	9	1	4 8	2	9
ioreign	"	1	71	0	0	1	$7\frac{1}{2}$	0	0
ANTIMONY, ernde	per cwt.	21 41	0	0 43	0	22 41	0	0 43	0
Arsenic, lump	"	22	0	24	0	22	0	24	0
BRIMSTONE, rough	**	12	6 0	12	9	12	6 0	12 8	9
roll flour	"	8	9	10	0	8	9	9	9
GLYCERINE, German	"	10	0	12	6	10	0	12	6
refined	,,	50	0	55	0	50	0	52	6
erude brown LODOFORM	per lb.	37 17	6	42 0	6	37 17	6	42 0	6
TODINE, dry	per oz.	0	81	0	0	0	81	ő	0
resublimed MAGNESIA, calcined	per lo.	1 0	0 10	$\frac{0}{1}$	0 4	1 0	$\begin{smallmatrix} 0 & \dots \\ 10 & \dots \end{smallmatrix}$	0	0
Hwds	per ro.	5	0	0	ō	5	0	0	Ô
MERCURY PRECIPITATE, red	per hot.	125		135	0	130	0	135	0
white	per lb.	3 2	0 11	0	0	3 2	$\begin{smallmatrix} 0 & \dots \\ 11 & \dots \end{smallmatrix}$	0	0
PRUSSIAN BLUE	"	11	8	2	0	1	8	2	0
SANTONINE	"	10	6 0	0	0	11 10	6 0	0	0
THYMOL	"	35	0	0	0	35	0	Õ	0
Alum	per ton	117	6	0	0	117	6	0	0
powder	,,	125	0	ŏ	Ŏ	125	ŏ	Õ	Õ
Ammonia: Carbonate	per lb.	0	5	0	51	0	5	0	51
Hydrochlorate,	•				•				
crude, white Sulphate	per ton	600 307	0 6	760 0	0	560 280	0	600 295	0
Argol, Cape	per cwt.	83	0	96	0	83	0	96	O
Red Oporto, red	"	70 38	0 0	90 42	0	70 38	0	90 42	0
Bleaching powder	"	8	6	8	9	8	0	0	0
Forax, British refined	per lb.	40	0 6	0	0	40	0 6	42 0	0
Chloral hydrate	pcr 15.	4	5	4	7	4	5	4	7
Liebreich's	,,	5	6	6	0	5	6	6	0
Sulphate	per cwt.	23	0	0	0	17	6	18	0
Corporas, green	per ton per lb.	55	$0 \dots 11 \dots$	0	0	45	0	55	0
Cream Tartar, French.	per cwt.	129	0	ő	ő	128	0	0	0
brown	,,	112	0	0	0	109	0	0	0
Glauber Salts	"	3	6 0	5 5	0	3	6	5 5	0
magnesia: Carbonate	39	40	0	0	0	40	0	0	0
Pond, Hwds Morphiæ Murias	"	72 6	0	0 6	0	72 6	0	0 6	0
Phosphorus	per lb.	2	ž	2	4	2	3	2	4
Potash: Bichromate		0	3½	0	0	0	31	0	0
Carbonate:	,,		Og	Ĭ	Ĭ.	U	02	Ü	Ü
Potashes, Canada, 1st sort	per cwt.	29	0	0	0	29	0	0	0
Pearlashes, Canada,	100 0				-			-	Ŭ
1st sort Chlorate	per lb.	46	0 51	46 0	6 5∄	46	0 6	46 0	6 0
Prussiate	"	0	10	Ø	10រួ	0	10	0	10½
Sulphate	per ewt.	10	11	2 11	0 6	10	11 6	2 11	6
Louissium:	per cut.	10		11	U	10	0	11	U
Bromide	per lb.	1 9	4	1	6	1	8	0	0
Chloride Iodide	per cwt. per lb.	11	$0 \dots 0 \dots$	0 12	0	9	0	0	0
Similine:				_		. ,			
Sulphate, British, in bottles	per oz.	4	6	0	0 -	4	8	0	0
Sulphate, French	,,	4	0	0	0	4	6	0	0
Sulphate, Germau Sal Acetos	per lb.	-3	81	0	9	- 0	1	4	3
Bal Ammoniac, British	per cwt.	40	8½ 0	42	ő	40	ô	42	81
Saltpetre: Bengal, 6 per cent. or	11.3		1						
under	, ,	16	3	16	6	16	3	16	6

Saltpctre :- (cont.)			
San petre :- (com.)			
		Last Month	This Month.
Bengal, over 6 per		s. d. s. d.	s. d. s. d.
cent	per ewt.	16 0 to 0 0	
British, refined	_		
Code Diamban-t-	"	22 3 23 3	22 0 23 0
Soda: Bicarbonate	,,,	7 9 8 0	7 9 8 0
Hwds		45 0 0 0	
Carbonate:	,,		45 0 0 0
	- 1	0 11 0 -	
Soda Aslı	per deg.	$\begin{bmatrix} 0 & 1\frac{1}{2} \dots & 0 & 0 \\ 3 & 0 \dots & 0 & 0 \end{bmatrix}$	0 13 0 0
Soda Crystals	per cwt.	3 0 0 0	
	_		0 0 0 0
	"	8 9 9 3 7 9 8 0	8 9 9 0
Hyposulphite	"	7 9 8 0	8 0 8 6
Nitrate	**	11 3 0 0	11 7 0 0
		10 0 14 0	
	12		12 0 14 0
SUGAR OF LEAD, White Brown	>>	30 0 34 0	30 0 34 0
Brown		26 6 0 0	
VERDIGRIS	per lb.	0 9½ 1 0	
Unpagarage Emplish	per ro.		$0 9\frac{1}{2} 1 0$
VERMILION, English	,,	2 3 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
China	,,	2 4 0 0	2 4 0 0
DRUGS.	.,		0 0
Arore Honotic	nor out	60 0 00 0	CO O OO O
ALOES, Henatic.	per cwt.	60 0 80 0	60 0 80 0
Socotrine	"	60 0150 0	60 0150 0
Cape, good	,,	35 0 38 0	
Inferior		00 0 70 0	CC 0 70 0
Darbadas	"		25 0 32 0
Barbados	11		40 0120 0
Curaçoa	**	40 0 95 0	25 0 55 0
Ambergris, grey	per oz.	60 0 80 0	60 0 80 0
BALSAM-	F		00 0 00 0
		1 10 0 0	
Canada	per lb.	1 10 2 0	1 10 2 0
Capivi	,,	1 9 1 10	1 7 1 8
Peru		7 6 7 0	6 6 7 0
Toly	,,		
Tolu	**	1 10 0 0	1 10 0 0
BARKS—			
Canella alba	per cwt.	25 0 27 6	25 0 27 6
	_	10 0 15 0	
	"	40 0 45 0	40 0 45 0
Cinchona-			
Peru, grev	per lb.	0 9 1 8	0 9 1 8
Calisaya, flat	-	0 0 0	
	"		0.10 7.0
quill	**	0 9 2 6	0 10 3 0
Carthagena	,,	0 4 1 0	0 4 1 3
Columbian	"	0 6 1 9	0 6 1 9 0 3 1 4 0 7 2 0 0 4 1 5 1 6 7 0 0 6 2 0 0 4 2 3
Curren		0 3 1 4	0 7 1 3
Cuprea	1)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 3 1 4
New Granada	19	0 7 2 0 0 4 1 5	0 7 2 0
Pitayo & Maracaibo	` ,,	0 4 1 5	0 4 1 5
		2 0 9 0	1 6 7 0
	,,	2 0 9 0 0 6 2 0	1 6 7 0
East India, crown	33	0 6 2 0	0 6 2 0
_ ,,_ red	"	0 6 2 0 0 4 2 3	0 4 2 3
RUCKII I PANE		2 0 9 0 0 6 2 0 0 4 2 3 0 2 1 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
CAMPROD China	per cwt.	EQ 0 E7 0	
CAMPHOR, China Japan	per cwe.	52 6 55 0	
Japan	"	53 0 54 0	53 0 54 0
Refin. Eug	per lb.	0 11 0 0	0 101 0 0
Tablets		0 11 0 0	
	"		0 0 7 0
CANTHARIDES, China	,,	2 6 3 0	2630
Russian		6 6 7 0	6670
CAMOMILE FLOWERS	per ewt.	75 0 40 0	40 0 42 0
			00 0 70 0
CASTOREUM	per lb.	26 0 38 0	26 0 38 0
CHIRETTA		0 3½ 0 4½	0 3 0 0
DRAGON'S BLOOD, lp	per cwt.	70 0 240 0	70 0 240 0
Engam on Dan		0 61 0 10	
ERGOT OF RYE	per lb.	$0 6\frac{1}{2} 0 10$	0 6½ 0 10
FRUITS & SEEDS (see			
also Seeds and Spices)			
	per cwt.		
Anise, China Star		05 0 100 0	05 0 100 0
	1	95 0100 0	95 0100 0
Russian	- ,,	20 0 30 0	95 0100 0 20 0 30 0
Russian Beans, Tonquin	- ,,	20 0 30 0	20 0 30 0
Beans, Tonquin	per lb.	00 0 70 0	
Beans, Tonquin Cardamoms, Malabar,	- ,,	20 0 30 0 3 0 5 0	20 0 30 0 3 0 5 0
Beans, Tonquin Cardamoms, Malabar, good	- ,,	20 0 30 0 3 0 5 0	20 0 30 0 3 0 5 0
Beans, Tonquin Cardamoms, Malabar, good	per lb.	20 0 30 0 3 0 5 0	20 0 30 0 3 0 5 0
Beans, Tonquin Cardamoms, Malabar, good inferior	per lb.	20 0 30 0 3 0 5 0	20 0 30 0 3 0 5 0
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy	per lb.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6	20 0 30 0 3 0 5 0
Beans, Tonqnin	per lb.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6	20 0 30 0 3 0 5 0
Beans, Tonqnin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon	per lb.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6	20 0 30 0 3 0 5 0
Beans, Tonqnin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon	per lb.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 6 1 6 3 6 2 0 2 10	20 0 30 0 3 0 5 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts	per lb.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0
Beans, Tonquin Cardamonns, Malabar, good inferior Aleppy Madras Cevion Malabar sorts Cocculus Indicus	per lb. "" "" "" per cwt.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts Cocculus Indicus Colocynth, apple	per lb. "" "" "" per cwt. per lb.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts Cocculus Indicus Colocynth, apple Cubebs	per lb. "" "" "" per cwt.	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts Cocculus Indicus Colocynth, apple Cubebs	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Cevion Malabar sorts Cocculus Indicus Colocynth, apple Cubebs Cummin	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts Coccutus Indicus Colocynth, appic Cubebs Cummin Fenugreek	per lb. "" "" "" per cwt. per lb. per cwt. ""	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 1 6 2 10 4 0 7 0 11 0 13 0 0 10 0 1 3 130 0 0 220 0 30 0 0 12 0 10 0 0 12 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230 0 30 0 34 0 10 0 12 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreck Juniper Berrics.	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 1 6 2 10 4 0 7 0 11 0 13 0 0 10 0 1 3 130 0 0 220 0 30 0 0 12 0 10 0 0 12 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230 0 30 0 34 0 10 0 12 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreck Juniper Berrics.	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 1 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3 130 0 220 0 30 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230 0 30 0 34 0 10 0 12 0 8 6 11 0
Beans, Tonquin. Cardamonns, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Indicus Colocynth, applc Cubebs Cunemin Fenugreek Juniper Berrics Nux Vomica Tampariuds E India	per lb. """ per cwt. per lb. per cwt. """ """ """ """ """ """	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 0 13 0 0 0 0 1 3 180 0 220 0 30 0 0 12 0 0 8 6 11 0 0 7 6 10 0 0	20 0 30 0 3 0 5 0 5 0 6 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 23 0 30 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0
Beans, Tonquin. Cardamonns, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Indicus Colocynth, applc Cubebs Cunemin Fenugreek Juniper Berrics Nux Vomica Tampariuds E India	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 0.220 0 30 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 6 12 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 200 0 230 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Cevion Malabar sorts Cocculus Indicus Colocynth, apple Cubebs Cummin Fenugreck Juniper Berries Nux Vomica Tamariuds, E. India W. India	per lb. """ per cwt. per lb. per cwt. """ """ """ """ """ """ """ """	20 0 30 0 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3 180 0 220 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 12 0 18 0 12 0	20 0 30 0 3 0 5 0 5 0 6 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 13 0 200 0 230 0 200 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Coccutus Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamariuds, E. India Vanilla, large.	per lb. """ per cwt. per lb. per cwt. """ """ """ """ """ """	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 1 3 130 0 220 0 30 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 8 0 12 0 18 0 20 0 20 0 25 0	20 0 30 0 3 0 5 0 0 6 0 6 0 0 4 6 1 6 3 6 2 0 2 10 3 6 6 6 0 0 11 0 1 3 200 0 230 0 0 230 0 0 0 230 0 0 0 24 0 8 6 11 0 7 6 6 10 0 0 8 0 12 0 8 0 12 0 18 0 25 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berrics. Nux Vomica Tamariuds, E. India Vanilla, large. inferior	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 1 3 130 0 220 0 30 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 8 0 12 0 18 0 20 0 20 0 25 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230 0 30 0 34 0 10 0 12 0 8 6 11 0 8 6 11 0 8 0 12 0 8 0 12 0 8 0 12 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berrics. Nux Vomica Tamariuds, E. India Vanilla, large. inferior	per lb. """ """ """ """ """ """ """ """ """	20 0 30 0 3 0 0 3 0 5 0 0 5 0 0 5 0 0 3 0 0 4 0 0 3 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 13 0 0 10 13 0 0 0 0 23 0 30 0 34 0 10 0 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 25 0 20 0 25 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts Cocculus Indicus Colocynth, apple Cubebs Cummin Fenugreek Juniper Berries Nux Vomica Tamariuds, E. India Vanilla, large inferior FLOWERS—Dalmatian	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 0 0 1 3 130 0 0 220 0 30 0 0 34 0 10 0 0 12 0 8 6 11 0 0 8 0 12 0 18 0 0 20 0 20 0 25 0 8 0 0 18 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 6 1 6 3 6 6 6 0 11 0 13 0 0 10 1 3 200 0 24 0 30 0 34 0 10 0 12 0 8 6 11 0 8 6 11 0 8 0 12 0 20 0 25 0 8 0 18 0 8 0 18 0 8 0 18 0
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts Coccutus Indicus Colocynth, apple Cubebs Cummin Fenugreek Juniper Berries Nux Vomica Tamariuds, E. India W. India Vanilla, large inferior FLOWERS—Dalmatian Caugasian	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 0 1 6 6 7 0 11 0 1 3 130 0 220 0 30 0 34 0 110 0 12 0 8 6 11 0 7 6 10 0 12 0 8 0 12 0 18 0 12 0 18 0 12 0 18 0 20 0 0 25 0 8 0 18 0 0 90 0 6 6 0 90 0 0 9 5 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 0 5 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 2 10 3 0 2 10 3 0 2 20 0 0 230 0 3 0 0 34 0 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 18 0 95 0 9 0
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts Cocculus Indieus Colocynth, apple Cubebs Cummin Fenugreck Juniper Berries Nux Vomica Tamariuds, E. India W. India Vanilla, large inferior FLOWERS—Dalmatian Caucasian HONEY, Chili	per lb. """ """ """ """ """ """ """ """ """	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230 0 0 24 0 10 0 10 0 8 0 10 0 8 0 10 0 8 0 12 0 0 20 0 25 0 8 0 18 0 60 0 90 0 95 0 90 0
Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts Cocculus Indieus Colocynth, apple Cubebs Cummin Fenugreck Juniper Berries Nux Vomica Tamariuds, E. India W. India Vanilla, large inferior FLOWERS—Dalmatian Caucasian HONEY, Chili	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 11 0 13 0 0 10 1 3 200 0 230 0 0 24 0 10 0 10 0 8 0 10 0 8 0 10 0 8 0 12 0 0 20 0 25 0 8 0 18 0 60 0 90 0 95 0 90 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs Cunamin Fenugreck Juniper Berries Nux Vomica Tamariuds, E. India Vanilla, large inferior FLOWERS—Dalmatian Caucasian Honey, Chili Jamaica	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 0 1 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 2 10 3 0 2 10 3 0 2 10 3 0 2 10 3 0 2 10 3 0 2 10 3 0 2 10 3 0 2 10 3 0 0 2 10 3 0 0 2 10 3 0 0 2 10 3 0 0 2 10 3 0 0 2 10 3 0 0 2 10 3 0 0 2 10 3 0 0 2 10 5 0 0 2 10 8 0 0 1 2 0 8 0 0 1 2 0 8 0 0 1 2 0 9 0 0 0 0 0 0 9 0 0 0 0 0 0 2 0 0 3 0 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts. Cocculus Indiens Colocynth, apple Cubebs Cummin Fenugreck Juniper Berries Nux Vomica Tamariuds, E. India W. India Vanilla, large inferior FLOWERS—Dalmatian Caucasian HONEY, Chill Jamaica IPECACUANHA	per lb. """ per cwt. per lb. per cwt. """ per lb. per cwt. "" per lb.	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamariuds, E. India W. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil. Tongue sort.	per lb. """ per cwt. per lb. per cwt. per lb. ""	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamariuds, E. India W. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil. Tongue sort.	per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamariuds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort East India	per lb. """ per cwt. per lb. per cwt. """ per lb. per cwt. "" per lb. "" per lb. "" per lb. "" per lb. "" per wt.	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
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Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts Cocculus Indieus Colocynth, apple Cubebs Cummin Fenugreck Juniper Berries Nux Vomica Tamariuds, E. India W. India Vanilla, large inferior FLOWERS—Dalmatian Caucasian HONEY, Chill Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort East India West India West India West India West India	per lb. """ per cwt. per lb. per cwt. """ per lb. per cwt. "" per lb. "" per lb. "" per lb. "" per lb. "" per wt.	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon	per lb. """ """ """ """ """ """ """ """ """	20 0 30 0 3 0 5 0 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 10 0 11 0 0 13 0 0 0 10 13 0 0 0 0 13 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon	per lb. """ per cwt. per lb. per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" ""	20 0 30 0 3 0 0 3 0 5 0 0 6 0 7 0 3 0 4 0 1 3 0 4 0 1 6 1 6 3 6 1 0 0 20 0 1 1 0 0 13 0 1 0 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 20 0 11 0 13 0 0 10 13 0 200 0 23 0 300 0 34 0 10 0 12 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 20 0 25 0 8 0 12 0 20 0 25 0 60 0 90 0 25 0 50 0 25 0 50 0 25 0 50 0 26 0 38 6
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Indicas Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamariuds, E. India W. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPPEACUANHA ISINGLASS, Brazil Tongue sort East India Russ, leaf Sinovia JALAP, good	per lb. """ """ """ """ """ """ """ """ """	20 0 30 0 3 0 0 3 0 5 0 0 6 0 7 0 3 0 4 0 0 3 0 4 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0	20 0 30 0 3 0 5 0 5 0 6 0 5 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 1 6 3 6 2 0 2 10 3 0 1 3 0 0 10 1 3 0 0 10 1 3 0 200 0 230 0 30 0 34 0 10 0 12 0 18 0 12 0 18 0 20 0 20 0 25 0 8 0 18 0 95 0 50 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 3 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 20 0 9 0 9
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Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevion Malabar sorts. Cocculus Indicus Colocynth, apple Cubebs. Cummin Fenugreck Juniper Berries. Nux Vomica Tamariuds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil. Tongue sort. East India Russ. Jeaf Nest India Russ. Jeaf Liquorice Root Lime Juree Liquoride Root MANNA, flaky Musk, Tonquin pod. Grain Yunnan pod. OILS (see also separate list) Almond, expressed Castor, 1st pale.	per lb. """""""""""""""""""""""""""""""""""	20 0 30 0 3 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3 130 0 24 0 3 0 24 0 10 0 10 0 8 6 11 0 8 6 11 0 8 6 11 0 8 0 12 0 18 0 12 0 20 0 25 0 8 0 18 0 8 0 18 0 6 0 90 0 95 0 0 0 26 0 38 6 2 6 3 6 2 6 3 6 2 6 3 6 2 6 3 6 2 6 3 6 2 7 0 9 7 0 10 0 1 6 4 10 7 0 10 1 0 20 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 0 1 7 0 9 0 0 0 0 0 0 1 8 0 0 1	20 0 30 0 3 0 5 0 5 0 6 0 5 0 6 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 2 10 3 6 6 0 2 0 2 10 3 6 6 0 0 10 1 3 200 0 230 0 30 0 34 0 10 0 0 12 0 18 0 20 0 18 0 20 0 18 0 20 0 20 0 25 0 20 0 25 0 20 0 25 0 20 0 31 0 20 0 31 0 20 0 31 0 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 0 0 0 20 0 0 0 0 20 0 0 0 0 20 0 0 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras. Cevlon	per lb. """ per cwt. per lb. """ per lb. """ per lb. """ per lb. """ per deg. per gall. per cwt. per lb. per cwt. """ """ """ """ """ """ """ """ """ "	20 0 30 0 3 0 0 3 0 5 0 0 6 0 7 0 3 0 4 6 1 6 6 3 6 0 11 0 0 13 0 0 11 0 0 13 0 0 0 0 0 20 0 0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 6 1 6 3 6 1 0 2 10 3 6 6 3 6 1 0 13 0 0 10 13 0 0 10 13 0 0 0 23 0 0 0 23 0 0 0 23 0 0 0 23 0 0 0 25 0 8 6 11 0 7 6 10 0 8 0 12 0 18 0 20 0 20 0 25 0 8 0 12 0 18 0 20 0 25 0 25 0 26 0 33 6 2 0 4 3 3 1 6 4 10 1 0 3 11 2 9 3 10 2 2 2 4 4 0 7 0 0 10 2 2 2 4 0 7 0 0 0 55 0 100 0 1 6 0 0 55 0 100 0 1 6 0 0 55 0 100 0 2 2 2 4 0 7 0 0 0 0 2 0 0 0 0 2 0 0 0 0 2 0 0 0 0 3 0 0 0 0 3 0 0 0 0 3 0 0 0 0 3 0 0 0 0
Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras. Cevlon	per lb. """ per cwt. per lb. """ per cwt. """ per lb. "" per lb. "" per deg. per gall. per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" ""	20 0 30 0 3 3 0 5 0 6 0 7 0 3 0 4 0 3 0 4 6 1 6 3 6 2 0 2 10 4 0 7 0 11 0 13 0 0 10 1 3 130 0 24 0 3 0 24 0 10 0 10 0 8 6 11 0 8 6 11 0 8 6 11 0 8 0 12 0 18 0 12 0 20 0 25 0 8 0 18 0 8 0 18 0 6 0 90 0 95 0 0 0 26 0 38 6 2 6 3 6 2 6 3 6 2 6 3 6 2 6 3 6 2 6 3 6 2 7 0 9 7 0 10 0 1 6 4 10 7 0 10 1 0 20 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 6 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 1 6 0 0 1 7 0 9 0 0 0 0 0 1 7 0 9 0 0 0 0 0 0 1 8 0 0 1	20 0 30 0 3 0 5 0 5 0 6 0 5 0 6 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 2 10 3 6 6 0 2 0 2 10 3 6 6 0 0 10 1 3 200 0 230 0 30 0 34 0 10 0 0 12 0 18 0 20 0 18 0 20 0 18 0 20 0 20 0 25 0 20 0 25 0 20 0 25 0 20 0 31 0 20 0 31 0 20 0 31 0 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 33 10 20 0 0 0 0 20 0 0 0 0 20 0 0 0 0 20 0 0 0

	1	Last Month	This Month			Last Month	This Month
Essential Oils:		s, d. s, d.		Oils:—(cont.)			P a Month
Almond	per lb.	30 0 to 0 0	70 0 4- 0 0	SEAL, yellow to tinged	per tun		£ s. £ s. 24 0 to 27 0
Anise-seed. star	1 -	6 9 6 10	6 7 6 8	brown	1 -	27 10 24 0	27 10 00 21 0
" German, &c.	,,,	8 0 13 0	8 0 13 0	SPERM	1 "	23 10 24 0	23 10 24 0
Bergamot	,,	5 6 6 0 0 5 6 0 0	5 6 6 0	Cod	"	23 10 24 0 57 0 0 0 32 0 35 0 23 0 25 0 22 0 23 0	55 0 56 0
Cajeput	per bot	. 3 3 0 0	3 3 0 0	WHALE, South Sea, pale	,,,	27 0 25 0	23 0 25 0
Caraway	per lb.	5 6 0 0	5 6 0 0	yellow	,,	22 0 23 0	22 0 23 0
Cassia	per is.	3 9 4 0	6 7 6 8 8 0 13 0 5 6 6 0 3 3 0 0 5 6 0 0 3 9 4 0 1 9 2 6 0 23 0 0	brown	>>	57 0 0 0 32 0 35 0 23 0 25 0 22 0 23 0 20 0 21 0 25 0 27 0	24 0 to 27 0 23 10 24 0 55 0 56 0 32 0 25 0 23 0 25 0 22 0 23 0 20 0 21 0 20 0 27 0 41 0 42 0
Cinnamon	per oz.	3 9 4 0 1 9 2 6	1 9 2 6	Sardine	"	20 0 21 0 25 0 27 0	25 0 27 0
Cinnamon-leaf	1 -	1 9 2 6 0 23 0 0	0 23 0 0	OLIVE, Seville	,,,		41 0 42 0
Citronelle	"	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Gioja	per ton	36 0 37 0	36 0 37 0
Clove	per lb.	3 3 3 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Levant	,,	41 0 41 10	
Juniper	_	1 6 2 0	1 6 2 0	Mogador	,,	35 10 36 0	35 10 36 0
Lavender, Exotic	"	6 9 8 6	6 9 8 6	Spanish	,,	41 0 42 0	41 0 42 0
" Mitcham	"	60 0 0 0	$\begin{bmatrix} 6 & 9 & \dots & 8 & 6 \\ 60 & 0 & \dots & 0 & 0 \\ 4 & 0 & \dots & 5 & 6 \\ 0 & 1_{1}^{i} \vdots & \dots & 0 & 2 \end{bmatrix}$	Sicily	,,	41 0 0 0	41 0 0 0
Lemon	"	4 0 5 6	4 0 5 6	COCOANUT, Cochin	,,	33 0 33 15	32 10 0 0
Lemongrass	per oz.	$0 \ 1_{\frac{7}{16}} \dots \ 0 \ 2$	0 1 2 0 2	Ceylon	,,	33 0 33 15 32 0 32 5	32 10 0 0 29 0 30 0
Neroli	1 -	7 0 0 0	7 0 0 0	_ Mauritius	"	0 0 0 0	0 0 0 0
Nutmeg	"	0 8 0 0	7 0 0 0	PALM, fine	"	34 0 34 10	
Orange	per'lb.	8 0 10 0	8 0 10 0	Linseed	,,	34 0 34 10 20 15 21 5	20 5 2012/5
Orange Otto of Roses	per oz.	15 0 34 0	15 0 34 0	RAPESEED, English, pale	,,	27 15 0 0	28 0 0 0
Patchouli	1 -	1 4 2 0	1 4 2 0	brown	"	26 0 0 0	26 0 0 0
Peppermint:	"	1 4 2 0		COTTONSEED	,,	25 0 26 0	25 0 26 0
American	per lb.	12 0 0 0	12 0 0 0	LARD	,,	41 0 43 0	41 0 43 0
(H. G. Hotchkiss)	1	14 6 0 0	15 6 16 0	TALLOW	,,	28 10 45 0	28 10 45 0
English	,,		27 6 30 0		"	s. d. s. d.	20 10 40 0
German	"	27 6 30 0 8 0 14 0	8 0 14 0	TURPENTINE, American	per cwt.	23 0 23 3	s. d. s. d. 23 0 23 3
Japan	"	12 6 9 0	12 6 9 0	Petroleum, refined		0 63 0 63	0 63 0 63
Menthol crystals	"	12 6 9 0 36 0 45 0	38 0 40 0	Spirit	per gall.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Rosmary	"		2 6 3 9	SEEDS.	>>	0 14 0 03	1
Sassafras	,,,	2 6 3 9 2 6 0 0	2 6 3 9 2 6 0 0	CANARY	per qr.	56 0 62 0	48 0 60 0
Spearmint	,,,	12 0 14 0	12 0 14 0	CARAWAY, English	per cwt.	0 0 0 0	0 0 0 0
Thyme	,,		2600	German &c	1 -	0 0 0 0 18 0 26 0	
Mace, expressed	per oz.	2 6 0 0 0 2 0 0 15 0 17 0	0 2 0 0	CORIANDER	,,		1 10 0 21 0
OPIUM, Turkey	per lb.	15 0 17 0	15 0 17 0	Немт	per qr.	38 0 0 0	38 0 0 0
" inferior	Per ibe	11 0 13 0	11 0 13 0	LINSEED, English		0 0 0 0	0 0 0 0
QUASSIA (bitter wood)	per ton	11 0 13 0 50 0 60 0	60 0 80 0	Black Sea & Azof	,,	40 0 . 0 0	40 0 0 0
RHUBARB, Chiua, good	101 0011	00 0 11 00 0		Calcutta	,,,	38 0 0 0 0 0 0 0 40 0 0 0 44 3 0 0 43 6 44 0 35 0 38 0	42 6 0 0
and fine	per lb.	1 6 3 0	1630	Bombay	>>	43 6 44 0	1 45 0 0 0
Middling to fair	-	1 6 3 0	1 6 3 0	St. Petersburg	,,	35 0 38 0	
additional to anti-	"	1 1 1 0	0	MUSTARD, brown	per bush.	35 0 38 0 10 0 15 0	35 0 38 0 10 0 15 0
ROOTS—Calumba	per cwt.	22 0 30 0	22 0 30 0	white	per bush.	8 0 12 0	10 0 15 0 7 6 9 6 39 0 0 0
China	-	20 0 0 0	20 0 0 0	POPPY, East India	per qr.	43 0 0 0	7 6 9 6
Cus-Cus	,,	30 0 21 0	30 0 21 0	- or z , z doo z nam	per qr.		0.000
Galang il	"	21 6 0 0	21 6 0 0	SPICES.			
Gentian	"	22 6 25 0 23 0 50 0	22 6 25 0 23 0 50 0	CASSIA LIGNEA	per cwt.	28 6 29 0	27 6 28 0
Orris	"	23 0 50 0	23 0 50 0	Vera	_	18 0 23 0	18 0 23 0
Pellitory	"	68 0 80 0	68 0 80 0	Buds	,,	18 0 23 0 34 0 0 0	34 0 0 0
Pink	per'lb.	1 6 0 0	1 6 0 0	CINNAMON, Ceylon:	"		
Rhatany	1 -	0 5 0 6	0 5 0 6	1st quality	per lb.	0 9 2 1 0 6 1 9 0 5 1 2	0 9 2 1
Sencka	,,,	2 4 2 6	2 4 2 6	2nd ditto	_	0 6 1 9	
Snake	,,	1 6 0 0 1	1 6 0 0	3rd ditto	>>	0 6 1 9 0 5 1 2	
Snake SAFFRON, Valeucia	,,	30 0 35 0	25 0 32 0	Tellicherry	,,	0 0 0 0	0 5 1 2
Alicante	,,	23 0 25 0	20 0 23 0	Chins	"	0 21 0 5	0 21 0 5
SARSAPARILLA, Lima	"	0 6 1 0	0 6 1 0	Chips CLOVES, Penang	**		1 32 1 6
Guayaquil	"	1 2 1 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Amboyna	**	1 3 1 6 0 8 0 9½	1 3 1 6
Honduras	,,	1 2 1 5	1 0 1 3	Zanzibar	"	0 53 0 58	
Jamaica	"	1 6 1 10	1 6 1 10	GINGER, Jam., fine	per cwt.	90 0 0 0	90 0 0
Sassafras	per cwt.	0 0 1 10	0 0 0 0	Ord. to good		0 5\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0 8 0 9½ 0 5¾ 0 5½ 90 0 0 0 55 0 75 0
SCAMMONY, Virgin		1 0 1 3 1 6 1 10 0 0 0 0 32 0 35 0 15 0 28 0	0 0 0 0 32 0 35 0 15 0 28 0	African	,,	47 0 10 0	90 0 0 0 0 55 0 75 0 44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
second and ordinary	per lb.	15 0 28 0	15 0 28 0	Bengal	>>	47 0 0 0 35 0 40 0	44 0 0 0 35 0 40 0
Senna, Bombay	"	0 21 0 0	0 21 0 0	Malabar	37	0 0 0 0	0 0 0 0
Tinnivelly	"		0 3 1 2	Cochin	"	0 0 0 0 48 0115 0	48 0115 0
Alexandria	"	0 3 1 2 0 9 1 6	0 9 1 6	PEPPER, Black, Malabar	per'lb.	0 73 0 71	0 88 0 85
SPERMACETI, refined	"	1 3 0 0	0 9 1 6	Singapore	-	0 78 0 71 0 78 0 71	0 83 0 85 0 8 0 0
American	,,	0 101 0 0	0 101 0 0	White	"	0 10 0 10 1	0 10 0 103
SQUILLS	**	0 1 0 21	0 1 0 21	Cayenne	,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 91 1 25
GUMS.	>>	£ . £ . 2	£ 8 £ 0	MACE, 1st quality	"	1 3 1 9	1 4 2 0
Ammoniaci, drop	per cwt.	2 5 2 7	20 20	2nd and inferior	"	1 1 1 2	1 1 1 2
Animi, fine washed		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 0 2 6 19 0 20 0	NUTMEGS, 78 to 60 to 1b.	"	1 3 1 9 1 1 1 2 2 6 3 5 2 3 2 5	0 8\$ 0 8\$ 0 0 0 10 0 10\$ 1 2\$ 1 4 2 0 1 1 1 2 2 6 6 3 5 2 3 2 5 1 7 2 3
sorts	"		13 0 17 10	90 80 ,,	"	2 3 2 5	2 3 2 5
ARABIC, pale picked	"	2 15 3 10	2 15 3 10 l		"		0 9½ 1 2½ 1 1 1 2 2 6 3 5 2 3 2 5 1 7 2 3
sorts, mid. to fine	"	1 10 2 6	1 10 2 6 1	PIMENTA	"	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 13 0 2
TURKEY, pick. gd. to fin.	"	2 15 3 10 1 10 2 6 7 0 8 10 6 10 8 10 4 10 5 0 1 5 3 0	7 0 8 10 6 10 8 10 4 17 5 10 1 15 3 2/6		"		
second & inferior	,,	6 10 8 10	6 10 8 10	VARIOUS PRODUC	CTS.		
sorts	,,	4 10 5 0	4 17 5 10	COCHINEAL—			
ASAFŒTIDA, cm. to fin.	,,	1 5 3 0	1 15 3 2/6	Honduras, black	per lb.	1 6 2 0	1 6 2 0
BENJAMIN, Siam, 1st				" silver	,,	1 3 1 6	1 3 2 6 1 4 1 9 1 2 1 4 1 6 2 0
& 2nd	,,	15 0 34 0	12 0 30 0 5 0 10 0	Mexican, black	"	1 4 1 9	1 4 1 9
Sumatra	"	5 0 11 0	5 0 10 0	., silver	,,	1 2 1 4	1 2 1 4
Contract to		s. d. s. d.	s. d. s. d.	Teneriffe, black	,,	1 6 2 0	1 6 2 0
COPAL, Manila	"	15 0 67 0	15 0 67 0	silver	"		1 3 1 5
Angola, red	>>	145 U 152 6 1	45 0 152 6	GALLS, Tky blue	"	40 0 50 0	40 0 50 0
DAMAR, pale	,,	77 6 90 0	75 0 87 6	. Unina	,,	35 0 45 0	35 0 45 0 2 0 7 6 0 8 3 7 1 0 5 3 1 2 5 6
EUPHORBIUM	"	12 6 20 0	10 0 15 0	INDIGO, Bengal	,,	3 0 8 0	2 0 1 0
GALBANUM	per lb.	0 3 0 10	0 3 0 10	" Madras	,,	1 5 6 0	10.57
GAMBOGE, picked pipe		230 0300 0 2	30 0300 0	" Kurpah	,,	2 0 5 6	1 0 5 5
GUALACUM	per lb.	0 6 2 1	0 6 2 1	" Oude	,,	1 6 5 8	1 2 5 0
KINO	per cwt.	45 0 0 0	28 0 30 0	Bostar Guatemala	,,	1 6 6 4 4 9 12 0	1 2 5 6 1 3 5 9 4 9 12 0 28 0 0 0
Kowrie, sorts	>>		30 0 50 0	ROSIN, American	per cwt.	4 9 12 0	28 0 0 0
selected	>>	115 0260 0 1	15 0260 0	SOAP, Castile	,,,	28 0 0 0	
MASTIC, picked	per lb.	1633	16 331	SOY, China		16 00	1 6 0 0
MYRRH, good and fine	per cwt.	100 0150 0 1	00 0150 0	WAX, BEES, English	per cwt.	£0 0 £0 0	£0 0 £0 0
ordinary to fair	"	80 0140 0 8	80 0140 0	Jamaica	,,	7 10 8 0 6 0 7/12/6 £2 12 £2 14	6 0 7/12/6
OLIBANUM, p. drop	"	38 0 45 0 1 3	38 0 45 0	East India	,,	6 0 7/12/6	CO 10 (/14/D
amber and yellow	,,	29 0 37 0 2	29 0 37 0	VEGETABLE, Japan	,,	£2 12 £2 14 #	£Z 1Z £Z 14
SENEGAL	"	40 0 45 0 4	10 0 45 0	Paraffin	per lb.	0 4 0 6	07 5 7 10
SANDARAC	"	29 0 37 0 2 40 0 45 0 4 60 0112 6	0 0112 6 1	WOOD, DYE, Bar	per ton	£3 15 4/2/6	to 0 3 10
SHELLAC, Orange	"	63 0 82 0 6	63 0 82 0	Brazil	"	10 0 20 0	16 0 70 0
LIVER	,,	61 0 64 0	61 0 64 0	Cam	,,	0 4 0 6 £3 15 4/2/6 10 0 20 0 16 0 30 0	£0 0 £0 0 7 10 8 0 6 0 7/12/6 £2 12 £2 14 0 4 0 6 £3 5 3 10 9 0 19 0 16 0 30 0
THUS	,,	25 0 0 0 2	35 U., U U I	Fustic, Cuba	"	0 0 0 0 1	4 0 6 0 4 5 5 15
TRAGACANTH, lcaf	,,	180 0280 0 [12	20 0 180 0 [Jamaica	"	4 5 5 15	7 10 8 5
in sorts	,,	20 0 180 0 2	20 0180 0	Logwood, Campeachy	"	7 0 9 10 5 0 5/17/6	7 10 8 5 5 0 5/17/6
OITS	1			Jamaica	**	5 0 5/17/6	9 5 8 10
OILS.	man 4	£ s. £ s. 27 10 28 10	E s. £ s.	LIMA, first pile	,,	1/14/6 0/1/6	8 5 8 10 6 5 6 10
SEAL pale	per tun	27 10 28 10 2	7 10 23 10	RED SANDARS	,, i	6,2/6 6 5	0 0 0 10



11 St. Stephen's Avenue, Shepherd's Bush, W.

Mr. Joseph Ince will be obliged to any reader of this journal who will give him information respecting the origin of Holloway's Pills; Lady De Trespigny and Lady Webster's Pills (aloes, mastich, and soap), or any other historical or traditional particulars limited to this special subject.

Pharmaceutical details are not required.

Mr. Ince would prefer such communications to be sent to the address named, and they will be gratefully acknowledged.

DR. DE VRIJ, of The Hague, sends us the following letter, which, as will be seen, was first addressed to the *Pharm. Journal*, and refers to a ceremial discussion which proceeds in that paper among the various unhorities on the preparation of extractum einchonæ liquidum. Dr. de 7rij sends the letter to us because, it appears, our contemporary, in the suc of January 10, 1885, published "a mutilated abstract of my letter." le adds—"I take, therefore, the liberty to address myself to your impariality, with the request to insert my letter in toto in the next forthcoming umber of your journal." The letter will only be clear to those familiar with the controversy, but we gladly show this slight courtesy to our minent correspondent.

To the Editor of the "Pharm. Journal."

SIR,—The numbers quoted by you on page 480 of this journal of becember 17, 1834, from Hager's "Pharm. Praxis," 1833, are a so-called ancitoration of my process, invented by Dr. Hager at his own risk and responsibility. In the same article quoted by you, he states:—

"According to De Vrij, 3.2 grammes cinchona alkaloids require 20 c.c. f standard hydrochloric acid (containing in 1,000 c.c. 36.5 grammes HCl)."

All the rest of his writing quoted by you belongs to Dr. Hager, and not ome, so that I deny the responsibility, as I am only responsible for the numbers 32 grammes and 20 cc, which are rightly quoted by Dr. fager, and which I have never changed since I introduced, in 1879, my xtr. cinchonæ liq. into therapeutics. I regret very much that my original ormula, which is generally applied, not only in Holland but also in France, y the wholesale firm, Messrs, Darrasse & Co., in Paris, has entirely been poiled by Dr. Hager, so that even you, Mr. Editor, have been led into rror by his writing.

The Hague, January 7.

DR. J. E. DE VRIJ, C.I.E.

Patent Medicine Proprietors and their Views. To the Chemist and Druggist—

SIR,—In your report of our conversation on this subject I am made to nave said as to the desirability of repealing the "Duty or Stamp Tax," &c. This description is misleading.

I said, or intended to say, that I consider the stamp duty to be our only protection, although an inadequate one, and that I wish it extended to the whole of the United Kingdom. It is valuable, both as a duty easily and expensively collected, and as a trade protection which, I hope, will not a shandoned.

That which I wish to see increased, and extended to the whole of the Kingdom, is the amount of the license for the sale of patent medicines which was reduced some years ago from 42s, per annum in Londou, and 21s, per annum in the country, to an uniform charge of 5s., a most erroneous change in my estimation. I think it ought to be restored to its original scale at least. This is what I wished to convey at our interview.

1 am, sir, yours obediently,

G. H. Jones,

January 6.

of W. Sutton & Co., 10 Bow Church Yard, E.C.

To the Chemist and Druggist-

SIR,—I read with much interest the views of a few leaders in the patent-medicine business in THE CHEMIST AND DRUGGIST to hand. They all appear to be of similar opinions, Mr. Keating especially directh g his arrows towards the Pharmaceutical Society, from which centre legislation and proper regulation of sales of patent medicines and poisons have been long anticipated; but I fear no satisfactory results will be attained without joint action as recommended by yours interviewed. Whilst thoroughly endorsing the views given, I do deny that (as given by Pond's Extract Co.) the middle classes are the sole supporters and consumers of patent medicines; my experience tells me the poorer classes are the chief purchasers. To my mind it would be a pity to do away with the stamp—rather increase the price, especially ou American goods; for why should Fellow's Syrup be sold minus stamp for dispensing purposes, and my Ahracadabra not? But this is truly British fair free trade. I think,

also, that the stamps should be smaller—similar to the postage—and gummed; also that all stamps used should be either written across or stamped with the proprietor's name. I believe many clean ones are used more than once where no name appears on such stamp.

With regard to chemists making a lot of remedies to take the place of those advertised, which each of yours interviewed objects to, I can only ask, Are they surprised? Can they expect otherwise, when the fairly legitimate patent-medicine trade is fast passing out of chemists' hands? It used to be a pleasure to say Keating's lozenges or Cockle's pills are good; but now we have to say we have an article equally good, perhaps better; at any rate, we know what it contains, and can recommend it in preference; when, if a chemist has any locus standi or the confidence of his customers, they will (I find) prefer the article so advised. It is natural that patent-medicine proprietors should deprecate the system practised by ns, but what are we to do? Fancy, Eno's Saltis sold on board ships in canteen at 2s. 1\u03c4, and other things equally cheap! I presume no patent-medicine licence is paid by these dealers? [None is necessary for selling Eno's Salt.—ED. C. & D.]

The only chance of bringing back the trade to the chemist (so far as I can see) is to schedule all patent medicines with recognised poisons, to be sold only by chemists; the proportion for grocers, &c., will then be so reduced that it will scarcely be worth while for them to take out a licence. Again, I should advocate an increase in licence to at least double the present amount. There would be perhaps less numbers to collect, hence less expense and more profit to the Government.

Yours faithfu'ly,

W. R. FOWLER. (275,8.)

122 Queen Street, Portsea, Dec. 17.

Sale of Patent Medicines.

To the Chemist and Druggist-

SIR,—Your correspondent, Mr. Charles B. Allen, pharmaeist, of Kilburn, sends you a specimen of the label of his he attaches to other people's "Pateuts," on selling them, no doubt, but as a suggestion to other chemists; but is he aware he is liable to an action for every label he so attaches, also to injunctions by all the proprietors of the "Patents"?

The patent medicine proprictors have discovered years ago that the chemists were their sworn foes, but by way of consolation now find that a cutting groeer can sell more than all the chemists in a town put together, which makes them not only independent of chemists, but in a position to make an example of such foes, without any risk of loss of trade.

LEX NON SCRIPTA.

Dispensing Notes.

233/34. Pills of Ferri Redact. and Balsam Peru.—Viridi. has had the following to dispense:—

After failure by several methods he succeeded in making a workable mass, but not a presentable pill, with birdlime, which was the stickiest excipient he could think of. Stareh-powder, we may remark, is not the best absorbent in this case, because it is too gritty for pill-masses and rather retards than aids the binding of the mass. Liquoriee powder is much better. After rubbing the reduced iron to ensure fineness of division, the balsam and half its weight of treade are added, and well beaten together. The resulting mass is soft and oily in appearance, but not crumbly, and the addition of liquorice-powder, q. s, gives the required stiffness. The small percentage of alkali in the treade seems to combine with the resin of the bulsam, thus forming a good binding excipient. Birdlime should never be used as an excipient; it is highly probable that pills made with it will not disintegrate. The dispenser's object is not solely to make a mass, but to ensure also that the pills will break up in the alimentary caual.

To the Chemist and Druggist --

SIR,—I note the omission of "Extract of Malt" from the list of pill excipients in the Diary for 1885. I have found it to be a most valuable agent for very many pill ingredients; with pepsine, I prefer it to anything else, and altogether I think it deserves recognition.

Yours truly,

Jan. 3. W. B. (72/237.)

W.P.—Æther Chlor. Dist.—The commercial article is not uniform in strength, although it is generally understood that it contains twice as much chloroform as Spiritus Chloroformi B. P.; the fact is that it varies in strength from 2 to 12 per ceut. of chloroform.

Powdered Extracts,—All extracts, and even different samples of the same extract, differ in the amount of moisture which they contain, consequently no general rule for calculation can be laid down. The U. S. P. has a series of compounds called "abstracts," which are dried extracts made up to a certain weight with sugar of milk, so as to hear a definite relation to the weight of drug employed. Some firms send ont B. P. extracts made on this principle; weight for weight they are equal to the soft extracts.

Dextrin Mucilage.—A clear mucilage is made by adding one or two drachms of nitric acid to each pint of water used to dissolve the dextrin.

230/20. If. A. L.—Oblate, Wafers.—Oblat is the correct German term for wafer. Oblate is apparently an ecclesiastical Latin term for consecrated wafers distributed to communicants in the mass, and is evidently connected with oblation.

Chemists' Circulars.

The annexed is from the author of the circular which we quoted last October, and which suggested our competition last month.

Cincinnati, Dec. 5, 1884.

To the Chemist and Druggist-

SIR.—I heg leave to acknowledge the receipt of a marked copy of THE CHEMIST AND DRUGGIST, calling attention to my circular, and since you seemed to be in doubt whether there was such a druggist in America, and referred again to my circular in your November issue, I decided to send you one of the original circulars by to-day's mail. You seem to have overlooked the fact that I was already a subscriber to THE CHEMIST AND DRUGGIST, and more—expect to be as loog as I have the money to pay for it. I desire to say, further, since I have adopted the plan of closing my stores on Sunday, except during special hours, my prescription and drug business has increased, while my eigar and tobacco husiness bas decreased. I like it better, however, as both myself and my clerks have time to rest, and, after an experience of six months, think that I will continue the practice.

Yours,

C. W. PHILLIPS.

Legal Queries.

229 39. Rights in Labels.—We cannot pretend to give a legal opinion on the matter, but the one principle that is certain is that if there is any chance of the label leading the public to imagine that the perfume was made by the original firm, its use could be prohibited by law, whether the trade-mark were infringed or not. It would be a question of equity. In your place we should design a different kind of label.

69/251. A. P.—Trade-marks.—This correspondent registered a trademark under the 1875 Act before 1884. He wanted to register a combination of words, but more words were not then accepted, so the words were combined with a design. He asks whether any one cise can now register the words only, and if he would be able to restrain them, owing to his being registered in conjunction with a design? We have investigated this question both for this and another correspondent. The answer is that, provided the word or words included in the design are regarded as sufficiently "fancy," the Registrar would not accept such again for registration in the same class, except from the person from whom the first registration was made. We think in both cases submitted to us the words are "fancy," but it would be as well to get the Registrar's own assurance on this point. If there is any doubt about the matter, re-registration of the word only would make things quite safe.

12/36. Simon.— Salaries paid by the month are reckoned by the calendar month, but we are not aware of any clause providing that they are due at noon on the day fixed for payment. The month's service is not completed till the last day of the month is at an cud, and the salary is due then. (2.) An engagement at so much a year or any general unqualified engagement is a yearly living or service, and termination thereof can only be made by either party at the end of that year or subsequent years nuless for some lawful canse, or unless implication to the contrary can be established from the correspondence constituting the contract. On both sides, but especially on the master's, it is desirable that in engaging an assistant a stipulation as to the periods of paying salary, and as to the power of determining the engagement on a month's notice at any time should be mentioned in writing.

71.234. Nemo asks, the process and expense for registering a label for a certain hair-wash. We omit the title given as perhaps our correspondent might be forestalled. We have again and again explained that there is no effectual method of registering a label as such. Registration at Stationers' Hall, costing 5s., gives a copyright, but would

not he likely to he available against infringements. If an article has be sold and has attained a certain reputation, it is possible to obtain an ijunction against the maker of any colonrable imitation in a Court a Equity without any registration. But the court would have to be covinced that damage had been done, and that proof of the imitation in heen made ont. A fancy title can now be registered as a trade mark, patent agent will put such a matter through for yon for 5l. You will fine a card of such a firm among our advertisements. You will secure therebif the registration be admitted, an exclusive right to the use of that title fit that particular article, though you must bear in mind that your registration may be opposed. If so, you must either abandon your claim or spend more money in defending it.

49/235. Pharmico.—The remedies named in Mr. Humphrey's circula quoted in our report of the prize competition would he liable to stam duty, not from their titles, but because in each case they are said to 1 "for" some particular complaint. If they were called "Humphrey's that would also render them liable, because a proprietary right in the would be claimed. 2. The label you send is skilfully worded to sail vernear the law. We should not like to say whether a preparation so labelle might be sold without a stamp. Better ask the Board of Inland Revenn Somerset House. 3. If the presence of a scheduled poison in any lozeng sold by an unregistered person can be proved, that person can be fine 4. The tinctures of the B.P. are made in most cases of uniform strengtl In most cases the spirit will extract more of the active principle, butther is a limit to its power of dissolution.

Beware of the Travellers.—A chemist, signing himself "Fyld (40/232)," writes as a letter to warn young chemists against the seductions of certain travellers for special goods, who, it appears, are sometimes over persuasive. We do not tokink it right to publish the vague deunnciation "Fylde" sends us, especially as he gives us no evidence of any bad faith of the part of the persons he attacks. We all have to press somewhat har for business nowadays, hut "young chemists," like others, must loo sharply after their own interests. We have no objection to cantion any an all of these against signing contracts "as a matter of form," nnless the have also an equally hinding contract signed by the other party in whice all the traveller's tempting promises are duly set forth. Having such contract, let them at once get it stamped or it will be comparativel worthless.

"Young Sawbones" fails to send his name and address.

7/237. Fritz.—We think yon would find Cassell's "Family Physician very nsoful. You will find a good paragraph about the treatment obiis by sulphide of calcium on page 235 of our last May number. The sesence of it is to keep the bowels open by a small dose of sulphate o magnesia, regulate the diet, and give 1-10th of a grain of sulphide o calcium mixed with a little sugar of milk five times daily.

9/17. Inquirer.—Herb Bitters in a concentrated form for making herl beer. We quote the following from our last February number:—

(1) Coarse sngar 1 lb., 3 sticks of horehound. Pour upon this 1 gallon of water, and hoil for half an hour. When cold, mix 1 teaspoonful of yeast it. Bottle off next day, and it will be ready for use in two or three days.

(2)						Oz.
	Horehonnd	 	••	-	••	 1
	Burdock leaves	 			••	 1
	Ginger	 			••	 5
	Hops ··	 				 1/2
	Gentian root	 ••			••	 主

Boil in 5 gallons of water for one hour, and then strain. Boil the ingredients again with 3 lbs. brown sugar and 2 oz. extract of liquorice, with 3 gallons of water, for another hour, and strain. Add yeast, allow to ferment for twenty-four hours, and then bottle.

11.32. Subscriber wants a good White Oils. He asks for it to resemble Ellinan's embrocations for horses if possible. We do not know Ellinan's formula, but the following, which we have published over and over again, we are assured by those who have tried it, is an excellent one. The combination is not scientific, but it auswers:—Eggs, 12; soft soap. 5 oz.; turpentine, 12 oz.; strong solution ammonia, C oz.; strong acetic acid, 8 oz.; camphor, 5 oz.; methylated spirit, 10 oz.; encelyptus oil, 2 oz.; water to 5 pints. Beat up eggs and soft soap in a large mortar and gradually work in half the water. Then add, with constant stirring, the camphor dissolved in the spirit, then the encelyptus oil in the turpentine, next the solution of ammonia, and lastly the acetic acid diluted with the rest of the water.

39/239, Puzzled.—To answer your question would probably necessitate a mber of experiments and some expense, but we should have willingly ne our best if we knew who you were. Possibly you are not a subriber. We cannot undertake to attend to queries sent anonymously.

233/72. A Five Years' Subscriber .- Care of the Hair .- In the majority eases; if the hair be allowed a period of rest from all applications other an pure water, the natural capillary oil will assert itself, and the hair will sume a soft and glossy appearance. To begin, wash the head thoroughly bedtime with warm water and soap, and finish with spring water mfortably cold. In the morning rub twenty drops of almond oil in the lms of the hands, rub well tbrough the hair, dip your comb in spring water id proceed secundem artem. Brush well with a soft brush three or four nes a day. Let the application of water be the rule, and of oil the cention.

232/16. Little Dot. - Fishermen's O'lskins.-We understand that the proved oilskins are treated with paraffin before the drying oil is applied. and paraffin wax is melted and sufficient drying oil added to it as will ow it to remain solid when cold. A block of this substance is rubbed both sides of the cloth, so that a thin coating of it is imparted to the rie, which is then oiled in the usual mauner.

242/23. E. P.—Pomade Hongroise.—

150	۳, ۵								
(1))	Take							
		Wax			• •		 	• •	4 troy oz.
		Oil soap					 		2 ,,
		Gum ara	bic ir	ı powd	ler	• •	 		2 ,,
		Water					 		4 fluid oz.
		Bergamo	t oil				 		1 ,,

Dissolve the gum in the water; melt the wax and soap together in a ter-bath, stir in the solution of gnm, and, lastly, just before cooling, I the bergamot. Colour, as required, with burnt umber or lampblack bhed to perfect smoothness on a slab with a little of the melted wax. t up in small porcelain jars. For fixing the monstache.

2) Cire à Moustache Hongroise. - Gum arabic, soap, wax, and se water, of each 1,000 parts; bergamot oil, 40 parts; sandal-wood oil, Mix according to art. For brown and b'ack add pigments cordingly. Make up in sticks the size of a lead-pencil. For brown use ramel, for black very finely-powdered bone-black.

238/70. Enquirer. Putz Pomade. It is stated that this pomade is mposed of fatty acids 54, oxide of iro 1 10. powdered pumice 32, water doil of mirbane 3 66 parts. There is no doubt that a fine fatty acid is escut. From the American Druggist we get the following :-

Rotten stone (levigated) 1 part Subcarbonate of iron .. 3 parts Lard or olive oil, q. s. to form a paste

Oit of bitter almonds, q. s. to perfume.

earns, in New Ideas, reports on a sample thus :-

"This is in a lacquered tin box 21 inches in diameter, 3 of an inch ep, and consists of finely powdered pumice 40 parts, powdered crocus artis 15 parts, mixed into the form of a soft ointmeut with raneid lard ightly thickened with a little way. The directions state to take a little the pomatum on a soft rag, rub firmly, then polish off with a dry cloth." The following, for Scouring Paste, by J. W. Colcord, in Pharm. Record, similar to the Putz Pomade :-

Oxalic acid			 1 part
Peroxide of iron (jewellers' rouge)	••	••	 25 parts
Finely powdered rotten stone		٠.	 20 "
Palm oil		••	 60 ,,
Petrolatum	4.		 4 ,,

ulverize oxalic acid and add rouge and rottcu stone, mixing thoroughly ud sift to remove all grit; then add gradually the palm oil and petroleum, reorporating thoroughly. Add oil of mirbane, or, as I prefer, oil of wender, to suit. I apply with a piece of flannel, rubbing off with a piece f soft paper, and polish with a chamois. For cleaning metal I have never en its equal.

Lastly, we notice that a correspondent of the Druggists' Circular asserts hat a certain Putz Pomade sold in New York consists of "soft mercurial intment, coloured with Armenian bole," and is therefore very destructive plated ware.

239/31. Steamy Windows.—Alpha asks if anyone knows of anything eally offectual in keeping the shop windows from becoming damp and teamed during wet and frosty weather. Answer .- The best information n the subject is given in The Chemists and Druggists' Diary, 1884, age 132. The cause of the steaming is undoubtedly the large quantity of oal gas burnt in the shops. A cubic foot of gas yields an ounce of water when burnt, and this makes a very large quantity of steam, which will be deposited on the nearest cool surface unless conveyed at once out of the shop. Gas-burners designed for carrying off the products of combustion answer we'l. One chemist has movable shutters fitted at one part of the shop window, which ventilate it so thoroughly that the glass never gets steamy. The inquiry brings in another case; when a change of weather makes the air outside the shop warmer than within, moisture will then be deposited on the windows outside, but the condition is so rare that it causes uo trouble.

228/44. Stove for Warming Shop .- A Village Lad wishes to know the best means of warming his shop during cold weather. He has no outlet for smoke, and so cannot burn coal. He has seen a paraffin stove which gave a small amount of heat, and about the same quantity of small. He does not mind whether it burns liquids or solids, provided it gives a fair heat. He has no gas within eight miles. Answer.—If gas were available Clarke's patent "Syphon Stove," made by the Hygienic Heating and Lighting Company, 3 North Buildings, Finsbury Circus, E.C., would have been useful. These stoves are used without injury to delicate plants in conservatories and hothonses without chimnies. We have an idea that these stoves are also made for burning petroleum, but cannot be quite sure

Provincial Names of Drugs and Medicines.

Below we print the first instalment of what we hope will be a regular section in our journal for the next few months, and gradually grow to be a valuable addition to the pharmacist's works of reference. We invite our readers to contribute to it all they know, as it is only by the co-operation of very many that great success may be achieved. We ask, first, for fresh names; second, for records of the use of any of these names in other districts; thirdly, for references to literature throwing light on their origin and earlier uses.

It may be worth while to note that the copyright of this section, as of all other parts of the journal, is vested in the proprietors.

From Mr. F. D. DELF, Dewsbury :-

Natron Subcarbonate of soda Sal. enivon Sulphate of potash Vitriolated tartar Acid. sulph. dil. Sp. sulphur B'ne butter Ung. hyd. mit. Dulcified spirits of salts Sp. salts with zine, dissolved to saturation for tinners' use Soda ash Mauls Marsh-mallows

Another druggist in this town has given me the following:-

Alloway Aloes Balsam of life Tinet, benzoin co. Vinegar " Commodore's balsam Elliker's Jews' pitch Asphaltum Ferri sulph. Salts, steel " wormwood Potas, subcarb. Syrup tolu used? Syrup maidenbair Tbieves' vinegar Acid aectic aromat. White mercury. White arsenic powder

Commodore's hals, is fresh to me, and I thought that tinet, or dec. alocs was bals, of life,

It might be of interest if country readers would say what is used for oil of worms, bricks, swallows, as sometimes these relics of the past are presented to us.

Dogget, or degutt, is one of the names of ol. rusei, oleum pctulæ, oleum betulæ empyreumaticum, pix betulæ or bireb tar, the oil obtained from the wood and bark of Betula alba, or white birch, by dry distillation. Has any druggist ever met with the first two of these names?

229/39. Can you help me to decipher the following, found in an old Yours sincerely, horsedealer's book :н. в. Sudbury

Diagredin.-Is diagrydium; dacyridum (from dikry, a tear), is seammony .- Hooper's Medical Dictionary.

Oil of aaron .- We ask for suggestions.

Oil of Exters —Is oil of Exeter. Formula wantel.
Oil of vidgin.—Is there any doubt about the transcription of this? Could it be read ridgin? It would then, probably, be oil of origanim.

Oil of peter.—Either naphtba or a compound of oil of turpentine, Barbados tar, and oil of ro-mary .- Hooper. British oi', or common oil of petre, made of oil of turpentine, 1 quart; Barbados tar, 1 lb.; oils of rosmary and origanum, of each, 1 oz. Stimulant; formerly reputed to possess most astonishing virtues -Cooley.

Oit of pike. - Evidently a mistake for oil of spike. Farriers' oil of spike is thus made: -Oil of turpentine, I quart; Barbados tar, 12 oz.; alkanet root, ½ oz. Digest together for a week. Used as a stimulating liniment.-Coolen.

Painters' oil of spike is made from (a) rectified oil of turpentine, 3 pints; oil of lavender, 1 pint; or (b) oil of turpentine (warm), 5 parts; lavender-oil bottoms (genuine), 3 parts. Agitate well together, and in a fortnight decant the clear away. Used by artists and enamellers.—Cooley.

Will our readers say what they sell for this and the other articles? Some sawage.—Is this not a doubtful reading?

242/5. Country Chemistry.—Strychnine Vermin-killers.—We repeat from The Chemist and Druggist, September, 1879, p. 420:- "According to Halin, Hunter's infallible vermin and insect destroyer is composed of powdered nux vomica, sugar, meal, and smalts. Battle's and Gibson's are said to contain nux vomica. They are generally believed in England to contain 12 to 2 grains of strychnine in the threepenny packet. Kwizda's rat poison is composed of fresh beef suet 3 parts, powdered nux vemica I part, made into a cylindrical mass, weighing about 100 grammes ($1\frac{1}{2}$ oz.). A coroner has suggested that as rats and mice cannot be made to vomit, vermin poisons might be rendered harmless to men by mixing a strong emetic with them. We add also Hampshire Millers' rat poison, fresh meal 1 lb., nux vomica in very fine powder 1 oz., rat scent (anise and musk) a few drops. This is highly spoken of by those who have used it. Powdered cantbarides steeped in French brandy is said to be one of the most attractive rat scents. Cooley reports that if a little be rubbed on the hands rats may be handled with impunity. Another scent is composed of oil of anise. ½ oz.; tiucture of asafætida, ¼ oz. Another, of powdered asafætida, 8 grs.; oil of rhodium, 2 drachms; oil of auiseed, 1 drachm; oil of lavender, & drachm; mix. Another, oil of aniseed, & oz.; nitrous acid, 2 to 3 drops; musk (triturated with a little sugar), 1 gr.

134 40. Marking Ink Burning Holes in Linen. — F. H. B. has just had a batch of handkerchiefs brought to him, marked with ink made according to Redwood's formula (in Beasley's "Receipt Book") and eaten into holes. The handkerchiefs were marked previous to being wasbed.

We have more than once called attention to this danger during the last few years, and in July, 1882, p. 321, we expressly pointed out that the formula of Redwood's ink, as given in Beasley's "Pocket Receipt Book," and in Cooley's "Cyclopædia" was erroneous, and almost certain to destroy the fabric wherever the ink touches it, if the colour is brought up by a hot iron. We reprint the correct formula with that given in Beasley and Cooley.

The first is taken from P rofessor Redwood's original paper, published in 1847. We have not yet discovered the source of the other formula, but the difference between the two involves such an important point in the manufacture of marking inks that we print them side by side:—

			Mo	dified in
	Redwood		C.	and B.
Silver nitrate	3j.			3j.
Sodium carbonate crystallis	cd Jiss.			
Tartaric acid	3ij. Đij.			
Bitartrate of potash				3j.
Strong liquor ammoniæ	3ij. vel.	q.s.	• •	_
Liquor ammoniæ				živ.
Archil	3°s.			3ss.
White sugar	3iv.			5vj⋅
Powdered gum arabic	3xij.			3x.
Distilled water	q.s.		• •	q.s.
Final product	5vi.			3vi.

Beasley and Cooley direct that the silver nitrate and cream of tartar should be rubbed together in a Wedgwood mortar, the liquor ammoniae added, and the product, after complete solution and the addition of the sugar, gum, and archil, to be made up with distilled water to 6 fl. oz. By this process the whole of the nitric acid in the silver salt will be converted into potassium nitrate and retained in the finished ink. When the ink-marks are heated the uitre in them will attack the fibres of the fabric and will either destroy them so that they will break up like tinder ou the least handling, or damage them so that holes will be left instead of marks after a few months' use.

Redwood, on the other hand, directs the silver nitrate and sodium carbonate to be separately dissolved, the solutions mixed, and the precipitate of silver carbonatc carefully washed. This removes all but small traces of the nitric acid without any outbalancing disadvantage. The moist precipitate is rubbed in a Wedgwood mortar with the tartaric acid until effervescence ceases, the strong liquor ammoniæ is added, and a solution of ammonio-tartrate of silver is obtained, free from nitrates. The advantage here is clearly on the side of the original formula, The other is an unscientific attempt to shorten the process, for which we do not believe Professor Redwood is responsible. Fulminate of silver, a very dangerous compound, might possibly be formed by Beasley and Cooley's process, but this could never happen with Redwood's. The use of dilute in place of strong solution of ammonia is a matter of detail. The use of 10 drachms of gum and 6 of sugar in place of Redwood's 12 drachms of gum and 4 of sugar may, perhaps, make the ink flow more freely from the peu, but it will increase its tendency to deposit.

241/66. A. E.—Starch Enamel to be put up in packets. We repeat from The CHEMIST AND DRUGGIST, September, 1883, p. 479:—Use powdered borax alone, to be added to the starch, and the article ironed with a polishing-iron. At the same place will be found two formulæ for liquistarch gloss. Stearin coloured blue with indigo has been recommended in Germany.

241/57. Cochineal Paste is prepared by simply rubbing up cochinea with a little ammonia, the latter being employed to develop the colou ---M.

3/29. C. F. H.—Ink for Rubber Stamps.—See The Chemist and Druggist, 1884, p. 337; 1883, pp. 173 and 533; 1882, p. 454, &c.

We take the following from an exchange: -

"Black Stamping-ink.—Since rubber stamps do not readily take an interest and interest in the containing oil the compound used for this purpose is prepared with som kind of soluble black and glycerine. The best for this purpose is a so called 'tannin black,' manufactured by L. Seydel (according to a correpondent in the Pharmaceutische Zeitung).

"The following formula is said to yield a black stamping-ink equal in depth and gloss to the best printer's ink, the impressions of which arrapidly on paper, while the ink does not become hard or dry on the pad:—

"Dissolve 100 parts of 'tannin black' in a mixture of 100 parts of wate and 200 parts of glycerine, with the aid of heat (water or sand bath), an under constant stirring. The syrupy solution keeps well without alteration."

French Polish.—See The Chemists' and Druggists' Diary, 183 p. 139.

237/68. J. W. T.—You will find answers to your inquiries in our Trad Report, and in a special article.

228/60. K asks where he can get prepared charcoal that will light easil with a match. He has had it in small packets of about 4 oz. cach, and fo such purposes as burning inceuse npon it it is really very good. An information will oblige. Would it not be worth while to saturate an experimental quantity of willow-charcoal with solution of nitre, and dry diminishing or increasing the quantity of nitre as the charcoal was fount to burn too fast or too slowly?

263/40. Alpha, Ilfracombe. - Extraction of Theine. - Dragendorff, in his "Plant Analysis," recommends the following process: - "The material is boiled with pure water, the filtered or strained decoction evaporate with magnesia or lime, and the residue finely powdered with sand or some other inert substance. It is then extracted with ether, chloroform or other suitable solvent, and the filtered solution evaporated." See "Year-book of Pharmacy," 1880, p. 63, for further particulars.

It is asserted that a communication has been sent to Lord Wolsele; authorising him to offer a reward of 1501 to that soldier who first succeed in affixing to any part of the front gate of Gordon's Palace at Khartoum certain handbill, detailing the virtues of a well-known patent medicine, o which (the handbill) some thousands have been also sent out to our only General 1—Figaro.

"Glory," they say, "is priceless;" well, I dare say it may be so, But there's something far more useful will make the mare to go; A hundred and fifty sovereigus, all new and yellow and bright, Might make men forget their duty, and shirk the hard, herce fight.

It might occur to Friend Atkins to include with the rest of his kit, A poster extolling some poisonous stuff with far too persuasive wit. Others might do the fighting; his wish might be, early and late, To stick the bill of a patent pill ou famous Khartoum's gate.

He might scuttle across the desert with his paste-pot in his hand, And never heed the sun's hot glare, nor the burning, choking sand; And then, when comrades were dying, to be ranked with the brave and bold.

He might with just the aid of a stick have earned the trader's gold.

But do let us draw the line somewhere; we're a shop-keeping nation, we know.

And money flows like water when the sale of a patent's to grow; Still, let's pray that whatever weakness the love of greed instils, Gold will not tempt the soldier to advertise patent pills!

R. W. C.

What is "Bob Roberts. Poison"? Mr. F. G. Abel, Chester, sends us a printed label of this article, emanating from Runcorn. He was asked to supply some. It was a remedy for coughs. He would like to know bow much of Mr. Roberts he must distil in order to obtain an ounce of the medicine.

In 1-lb., 2-lb., 4-lb., 7-lb., 14-lb., and 28-lb. Boxes, 1/- lb. Special quotations to large buyers. N.B.-EVERY PACKAGE HAS OUR SEAL UPON IT.

Great care is used in the preparation of our Oxide of Zinc. and it is surerior to the ordinary Oxides sold as B.P., which frequently contain

Arsenic and Sulphate of Zinc in sufficient quantities to prove irritating to the skin.

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New York Medical Journal, 1880, Dr. F. WEIR.

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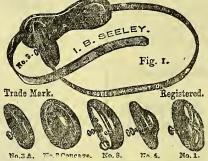
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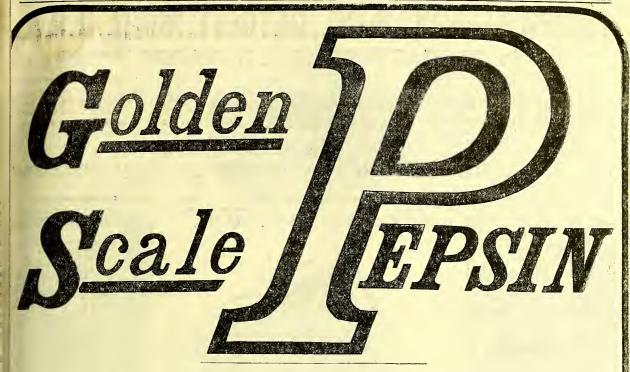
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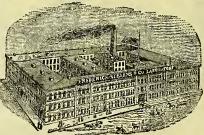
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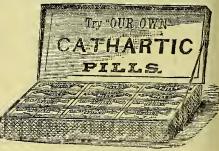












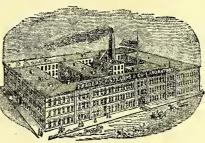




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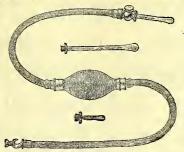
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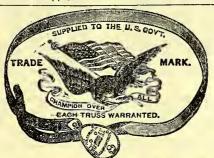
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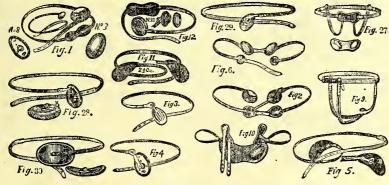
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	Freely and entirely soluble in alcohol or water.
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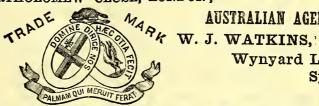
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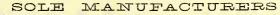
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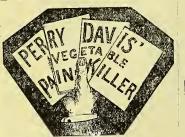
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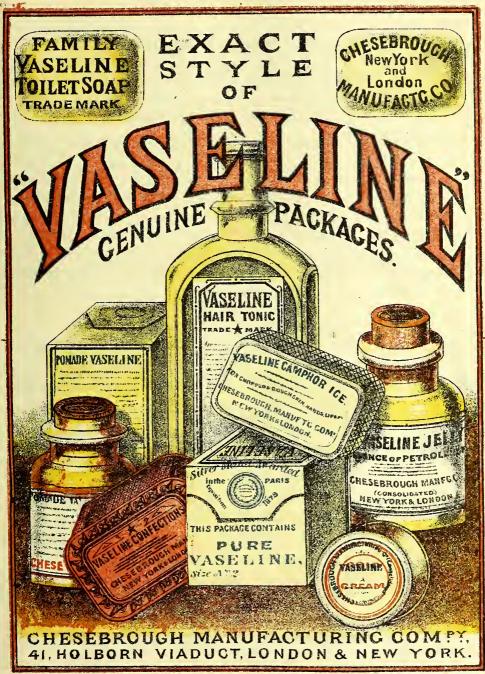


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"MEDICAL TIMES AND GAZETTE," March 16th, 1878.

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" MADAME SCHILD'S JOURNAL," December, 1880.

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"YOUNG LADIES' JOURNAL," May, 1880.

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FOR FARM AND HOUSEHOLD USE.

I tracts from the Trade Report of Her Majesty's Consul at St. Thomas, D.W.I., to the British Government, August, 1878.

"I deem it useful to state that, on hearing of the Veterinary Vaseline, I procured some from New York, and a rumerous careful experiments for over eight months, I can vouch for its efficacy against sores, bruises, scratches, nige, and all other skin diseases commonly met with in the stable, including hurts to the frog, hoof, and fetlocks, a for the improvement of mane and tail, and the coat generally. Except for mange, when I have used it with shur, I have employed it without mixture, and in the instance of a double saddle-gall, the one treated with (lodium, the other with Veterinary Vaseline, the latter sore, though the largest, healed nine days before the former of, the Vaseline reproducing a natural coat, while the Collodium produced a white, unsightly patch of coarse thick the, greatly disfiguring the animal (chestnut). Internally, I have had but two opportunities of testing the Vaseline, one against catarrh, and the other in small boluses mixed with sulphur, for mange. In both instances a cure was ected in little more than a week, assisted, in the case of mange, by a thorough external friction of Vaseline and sphur every other day.

During the summer, some forty or fifty horses, purchased in America for the gendarmerie of Martinique, were rused admittance there, all being more or less tainted with glanders. One was destroyed, and the remainder were tught here and landed on an isolated coal wharf, where they performed a month's quarantine, during which they we reconditional, mainly through the use of Veterinary Vascline. One of the great merits of Vascline is its quality

keeping off flies."

The "Veterinary Journal," July, 1878.

"For certain internal diseases of animals—and especially those of the respiratory organs—Vaseline should be find very useful. For diseases of the skin—as eczema, erythema, acue, prurigo, loss of hair, &c.—we have found i ield excellent results, while its uses in the pharmacy are manifold. This article is also the best anti-corrosive in It will prevent rust in guns, bicycles, arms, metals, household articles, &c. It has been used for years by a geons throughout the world, for smearing their most delicate instruments."

"The Live Stock Journal," March 4th, 1881.

"Sore Backs.—It may be of use to some of your readers to know how I cured the back of one of my draught reses, which had got into a very bad state through the gross neglect of the driver. As soon as I discovered it I let the animal off work and tried the usual remedies with but little success. A friend hearing of it recommended seline, and the result was the wound healed rapidly, so that within a fortnight I had the horse at work again, and has gone right ever since. I have since used it on the barked knees of a horse that had been down, and the hair won again quickly.

"(Signed) A Contractor."

From "The Field," August, 1880.

"SIR,—I always use Vaseline to prevent rust on guns. It is not much to say that a barrel thoroughly clean, d finished off with a clean piece of tow having a small quantity of Vaseline on it, will keep clean and bright for months."

xtracts from Report of Commandant of the National Armoury of the United States at Springfield, Massachusetts, November 2nd, 1882.

"SIR,—Referring to letter of June 12th last, reporting the receipt of samples of Vaseline from the Chesebrough anufacturing Co., for test at this Armoury, I have the honour to report that it has been tried as follows:—As a vering for iron and steel surfaces (rust preventive) it is good. For the preservation of machinery in store it is referable to white lead, sperm oil, &c.—a mixture heretofore used for that purpose—it prevents rust, and is much usier removed when the machine is required for use.

(Signed) A. B. BUFFINGTON,
Lieut.-Colonel of Ordnance, Commanding."

"To the Chief of Ordnance, United States Army, "Washington.

Report from the Commandant, United States Arsenal, Governor's Island, New York Harbour, January 22nd, 1883.

"SIR,—The officer in charge states that he has tried the Anti-Corrosive Vaseline you sent me for test. He oplied it to the bright surfaces of various articles, such as the Breech Blocks and Bores of several Rifle Guns, etween last July and September, and then exposed them to the weather. The surfaces would soon assume a rusty ad dirty appearance. But this was very readily removed, leaving the metal clean and bright. The trial, so far, has een very satisfactory.

(Signed)

T. G. BAYLOR,

"Lieut.-Col. of Ordnance, Commanding."

From "The Field," July 24th, 1880.

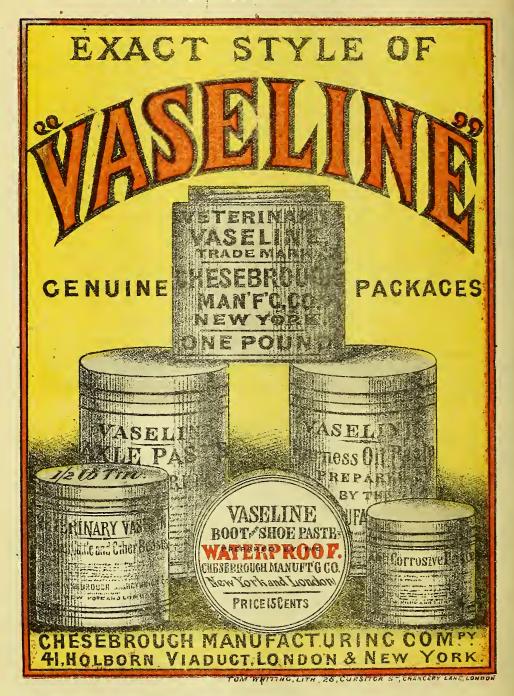
"Vaseline for Rust in Guns.—I have used Vaseline (petroleum jelly) for the prevention of rust on guns, aside and out, and find it the most efficacious article I have ever used, better than any oil. It is a most useful rticle—useful for burns, cuts, chafing of skins, &c."

The Harness Oil Paste renders the leather soft, pliable, waterproof, very durable, and not liable to gum or rack after exposure. It is a most superior article, and excels anything of its kind in the market.

The Boot Paste preserves the leather and makes it waterproof, can polish over it with ordinary blacking.

The Axle Paste is a compound of Vaseline and Graphite incomparable for heavy and light bearings where speed s required. Works equally well in cold or hot weather.

FARM AND HOUSEHOLD PREPARATIONS.



Veterinary Vaseline, ½ lb. tin, 1/1 lb. tin, 1/6

Vaseline Axle Paste, 1/-

Vaseline Harness Oil Paste, 1s.

Vaseline Boot Paste, 6d.

Vaseline Anti-Corrosive Paste, 6d.

TELEPHONE No. 7525.

Direccion por el cable—IODINE, LONDON.

Prize Medais,
CALCUTTA MENNA,
1884 (3) (3) 1883.
London 1881.

FLETCHER, FLETCHER & STEVENSON,



NORTH LONDON CHEMICAL WORKS,



HOLLOWAY, LÓNDRES, N.

A^L llamar la atencion del público á nuestras Manufacturas Químicas, nos permitimos someter lo siguiente, en la confianza de que un solo ensayo de nuestros preparados será suficiente para probar la exactitud de lo que onsignamos.

Siendo MANUFACTUREROS de casi todos los preparados químico-farmaceúticos, y habiendo surtido por nuchos años á la mayor parte de los drogueros al por mayor tanto en esta como en el continente europeo, podemos arantizar la mas absoluta pureza, y asegurar que nuestros preparados son á lo menos iguales á los de cualquiera de as otras casas de primer rango.

Aunque por supuesto no afirmamos que todos los artículos comprendidos en nuestra lista son de menor precio que en ninguna otra lista, sin embargo como manufactureros podemos absolutamente garantizar que nuestros recios, tomados en conjunto, ofrecen á nuestros amigos en los mercados españoles un verdadero atractivo para que 10s confien sus pedidos.

De algunos años á esta parte ha sido costumbre nuestra pagar al contado todas las primeras materias, para poder así hacer frente á la competencia mas activa, pues reconocemos que el comercio de hoy dia es otra cosa de lo que fué hace veinte ó treinta años, habiéndose variado tanto las condiciones y circunstancias que en esas épocas lo gobernaban; y todas nuestras cotizaciones han sido calculadas con arreglo á esta base é incluyen solamente un ligero beneficio sobre el primer coste.

No nos perdonaremos esfuerzo alguno para ejecutar con sumo esmero las órdenes que se nos confien, y tendremos en cuenta los intereses de nuestros amigos en todo concepto, no omitiendo las importantes partidas de flete, seguro, embalage, etc.; al mismo tiempo suplicamos á los compradores en grande escala que nos pidan cotizaciones especiales cuando el encargo que proyectan es excepcionalmente grande.

Este año acabamos de publicar nuestro tercer "Código especial telegráfico" (depositado), de lo cual enviaremos una copia á nuestros corresponsales, y en caso necesario se incluirán su nombre y direccion bajo una sola palabra, la que se depositará con Reuter, libre de gasto.

Este código (compilado á fuerza de mucha labor y á gran coste) reune muchos miles de combinaciones, y se cree que es el mas completo que se ha ofrecido á los drogueros, puesto que por su medio cualquier parte ó pedido ordinario puede trasmitirse en una sola palabra.

Nos ofrecemos para la compra de géneros de toda clase bajo una comision de $2\frac{1}{2}\%$, y de nuestra parte cederemos todos los descuentos y rebajas para los pagos al contado; pero para estas operaciones debe remitirse con el encargo una letra á vista, con margen suficiente para satisfacer los gastos de embarque.

Todos nuestros preparados se arreglan con gusto y arte, y se colocan las etiquetas segun las exigencias del comprador. En fin debemos añadir que nuestras manufacturas han sido premiadas en cuantas exposiciones han competido.



letchers' Concentrated Liquors.



PERMANENT! UNIFORM! ECONOMICAL!

For the extemporaneous production of Chemical Syrups.

Any quantity of a required Syrup at a moment's notice. In daily use in Pharmacies and Dispensaries throughout the world. May be obtained through any Wholesale House.



With these preparations the whole of the Medicinal Syrups can be made at a moment's notice, of uniform strength and appearance, and at a lower rate than by any other process. An illustration will make this clear. We instance Syr. Ferri Phosph., as it is a Syrup very largely used, and the manufacturing cost of which can be easily arrived at.

EXAMPLE.

Average Cost of Syr. s. d. | Cost of Syr. Ferri Phosph., Ferri Phosph., B.P., made in small quantities, per lb. $\dots = 1 \quad 4$

B.P., made with FLETCHERS CONCENTRATED LIQUOR: 1-lb. bot. Liq. Ferri s. d. Phosph... = 3 67 lbs. Syrupus, B.P., $@ 2\frac{1}{2}d. \dots = 1 6$

Giving 8 lbs. Syr. Ferri Phosph., B.P., @ $7\frac{1}{2}d$. per lb.

Foreign buyers should bear in mind that for quantities of 12 W. Qts. (assorted) we quote special rates, that our "Liquors" are I to 7 instead of 1 to 4 parts, and that the duty, freight, &c., amount to only one-eighth part of what would be incurred in importing the Syrups.

Full descriptive Pamphlet posted free to any part of the world on application to

FLETCHER, FLETCHER & STEVENSON, HOLLOWAY, LONDON, N.

Fletchers' Concentrated Liquors.

OPINIONS OF THE PRESS.

THE LANCET.

"They are all good and extremely convenient, for they may require dilution with simple syrup to yield the ordinary rups. Syrups are very troublesome, especially in country actice, on account of their liability to change, and Messrs. Letcher may be congratulated on having overcome this fficulty. Syrups prepared in this way will, of course, be different in action, and appear, moreover, to have the addinal advantage of being economical."

BRITISH MEDICAL JOURNAL.

"These Liquors, which have now been extensively uployed, have many advantages in dispensing, as they are allable for the immediate production of any corresponding rup. When any particular Syrup is required, the disner has only to add to the proper proportion of Fletchers' ncentrated Liquor a certain volume of simple syrup, in the to obtain the necessary combination. Again, by the e of these liquors, the prescriber can vary the strength of e dose at pleasure, by adding a larger or smaller quantity the Liquor to the Syrup."

IEDICAL TIMES AND GAZETTE.

"There is no disputing the great convenience of these eparations for dispensing purposes, as, when any one of e Syrups is required, the dispenser has only to add the oper proportion of Fletchers' Concentrated Liquor to a rtain volume of simple syrup in order to obtain the required onbination."

PHARMACEUTICAL JOURNAL.

"A bottle of one of these Liquors, that of Iodide of Iron, as left open to the air during the whole of the Exhibition, in showed no trace of oxidation at the margin or surface of ite fluid."

CHEMIST AND DRUGGIST.

"Kept in an ordinary bottle for eighteen months, the iquor Ferri Iodidi is as perfect in colour and taste as if it ad been made yesterday."

JOURNAL DE PHARMACIE D'ALSACE-LORRAINE.

"Il existe en Angleterre une solution d'iodure ferreux épondant à toutes les exigences. Fletcher et Stevenson, ui la préparent, n'ont pas publié leur procédé: ils nous pprennent seulement que 34 et demi grains d'iodure sont enfermés dans un drachme fluide de leur liquide, ce qui, en rammes, équivaut à 2^{sr}167 pour 3^{sr}54, en centièmes 9 per cent. Ces données sont parfaitement exactes, et ie l'ai pu trouver dans le liquide aucune autre substance.

OPINIONS OF PHARMACISTS.

From Messrs. SYMES & Co., Pharmaceutical Chemists, Liverpool.

We have carefully examined the samples of Concentrated Liquors, and have prepared the various Syrups therefrom. The Liquors are of full strength; the Syrups excellent.

March 25, 1880. Taifully Mans

From Mr. TOM WATERHOUSE, Dispensing Chemist, UNBRIDGE.

I have thoroughly tested your Concentrated Liquors, and I cannot speak too highly of them. I now use them, to the exclusion of all other similar preparations, in my dispensary. They save time, are very reliable, and come as a boon to dispensing chemists. I get them regularly through my drug house.

Tout ataline

July 8, 1881.

From Messrs. HOPWOOD & SON, Pharmaceutical Chemists, RICHMOND.

We have much pleasure in bearing testimony to the very satisfactory results which we have always obtained from the use of your valuable preparations. We have now used the Concentrated Liquors for some considerable time, and have never once heard any complaint arising from want of uniformity in the result obtained, a state of affairs scarcely possible under the old method of keeping the ready-made Syrups.

your fackfully Motivored xchi

November 9, 1883.

From Mr. A. E. REMINGTON, Dispensing Chemist, Wellington, N.Z.

I have had the pleasure of trying your Liq. Ferri Iodid., Liq. Ferri Phosph., Liq. Eastoni, Liq. Tolut., and one or two others, and finding that to once use them creates a want, I should like to stock them on the most favourable terms to myself and introduce them to brother druggists. I may say that, on first reading-your advertisements, I was sceptical as to the medicinal value of such Concentrated Liquors, but am happy to state that, having used them now for over twelve months, I am so convinced of their stability and reliability that I intend to make all my Syrups for the future with your Liquors.

September 7, 1883.

Sarhfully Jours

Fletchers' Concentrated Liquors.

Awards—London, 1881; Vienna, 1883; Calcutta, 1884.

Liq. Calcis Hypophosph., 1 to 7.

Each fluid drachm contains 8 grains of Hypophosphite of Calcium.

 $\frac{1}{2}$ lb. bots., 26; 1 lb. bots., $\frac{4}{6}$.

Liq. Calcis Lactophosph., 1 to 7.

Each fluid drachm contains 8 grains of Calcium Phosphate, comhined with Lactic Acid.

 $\frac{1}{2}$ lb. bots., 3/6; 1 lb. bots., 6/6.

Liq. Eastoni, 1 to 3.

Each fluid drachm contains 4 grains of Phosphate of Iron, 4 grains of Phosphate of Quinine, and 1 grain of Strychnia. One volume added to three volumes of Syrupus, B.P., forms EASTON'S SYRUP.

½ lb. bots., 6/6; 1 lb. bots., 12/.

Liq. Ferri Bromidi, 1 to 7.

Each fluid drachm contains 34.4 grains of Bromide of Iron.

 $\frac{1}{2}$ lb. bots., 3/6; 1 lb. bots., 6/6.

Liq. Ferri Hypophosph., 1 to 7.

Each fluid drachm contains 8 grains of Hypophosphite of Iron.

 $\frac{1}{2}$ lb. bots., $\frac{2}{6}$; 1 lb. bots., $\frac{4}{6}$.

Liq. Hypophosph. Comp., 1 to 7.

Each fluid drachm contains 8 grains of Hypophosphite of Calcium and 4 grains each of the Hypophosphites of Potass and Soda.

1 lb. bots., 3/6; 1 lb. bots., 6/6.

Liq. Ferri Iodidi, 1 to 7.

Each fluid drachm contains 34.4 grains of Iodide of Iron. This is the only permanent solution of Ferrous Iodide yet produced. It may he exposed for mouths in an open hottle without impairing the beautiful seagreen tint characteristic of the freshly-prepared salt. It produces a hrilliant Syrup, free from any yellow tint.

 $\frac{1}{2}$ lb. bots., 5/-; 1 lb. bots., 9/.

Liq. Ferri Lactophosph., 1 to 7.

Each fluid drachm contains 8 grains of Phosphate of Iron, combined with Lactic Acid.

 $\frac{1}{2}$ lb. bots., 3/6; 1 lb. bots., 6/6.

Liq. Manganes. Phosph., 1 to 7.

Each fluid drachm contains 8 grains of Phosphate of Manganese.

 $\frac{1}{2}$ lb. bots., 2/6; 1 lb. bots., 4/6.

Liq. Ferri Phosph., 1 to 7.

Each fluid drachm contains 8 grains of Ferrous Phosphate. One voluded to seven volumes of Syrupus, B.P., forms Syr. Ferri Phosph. a uniform strength unattainable by the Pharmacopæia process.

½ lb. bots., 2/-; 1 lb. bots., 3/6.

Liq. Ferri Phosph. Comp., 1 to 3.

Each fluid drachm contains, in addition to the Alkaline Phospha grains of Ferrous Phosphate, and 8 grains of Calcium Phosphate solved in pure Phosphoric Acid. One volume added to three volume Syrupus, B.P., forms CHEMICAL FOOD of a strength nearly double that ordinary commercial specimens.

 $\frac{1}{2}$ lb. bots., 2/-; 1 lb. bots., 3/6.

Liq. Croci, 1 to 3.

In the manufacture of this preparation only the finest Valencia Safis employed. One volume added to three volumes of Syrupus, B.P., fo SYRUP OF SAFFRON.

 $\frac{1}{2}$ lb. bots., 2/3; 1 lb. bots., 4/.

Liq. Ipecacuanhæ, 1 to 7.

This preparation is eight times the strength of Vin. Ipecacuanhæ, One volume added to seven volumes of Syrupus, B.P., forms SYRTI IPECACUANHA.

 $\frac{1}{2}$ lb. bots., 2/3; 1 lb. bots., 4/.

Liq. Limonis, 1 to 7.

Prepared from the Frnit and guaranteed free from Artificial Essenc

 $\frac{1}{2}$ lb. bots., $\frac{2}{3}$; 1 lb. bots., $\frac{4}{4}$.

Liq. Papaveris, 1 to 7.

Prepared from the Capsules of the White Poppy. One volume addeseven volumes of Syrupus, B.P., forms Syrup of Poppies of full I macopæia strength.

 $\frac{1}{2}$ lb. bots., 2/3; 1 lb. bots., 4/.

Liq. Rhei, 1 to 7.

In the manufacture of this preparation only the finest East In Rhuharh is employed.

 $\frac{1}{2}$ lb. bots., $\frac{2}{3}$; 1 lb. bots., $\frac{4}{3}$.

Liq. Sennæ, 1 to 7.

A fluid ounce of this preparation contains the soluble portion of ounces of Senna. One volume added to seven volumes of Syrupus, forms Syrup of Senna of full Pharmacopæia strength.

 $\frac{1}{2}$ lb. bots., 2/3; 1 lb. bots., 4/.

Liq. Tolutani, 1 to 7.

Prepared from the finest Tolu Balsam. One volume added to volumes of Syrupus, B.P., forms Syrup of Tolu of full Pharmac strength.

½ lb. bots., 2/3; 1 lb. bots., 4/.

Trial Samples of any of the above Liquors will be sent free on application to the Sole Manufacturs

FLETCHER, FLETCHER & STEVENSON,

NORTH LONDON CHEMICAL WORKS, HOLLOWAY, LONDO

PARTICULARS OF DEPARTMENTS IN

SOUTHALL BROS. & BARCLAY'S NEW PREMISES.

LOWER PRIORY.

Offices.

Museum Waiting Room.

Buyers' Room.

Wet and Dry Departments.

Patents and Sundries.

Packing Floor.

Receiving Room.

Flat Roof and Bottle Washing Rooms.

Cod Liver Oil Store Room.

FROM THE COMMENCEMENT OF THE BUSINESS IN 1820 the greatest attention has always been paid to the Manufacture of Pharmaceutical Preparations; and in the building of their new premises Southall Brothers and BARCLAY have made a special feature of their Analytical and Pharmaceutical Laboratories, not only to maintain the reputation of the firm, but knowing that the Pharmacy of the future will include an extended use of the more active preparations, such as Liquid Extracts, Resinoids, Alkaloids, Elixirs, &c. A separate department, under distinct management, for the conduct of Analyses, and the Manufacture of the Finer Chemicals, &c., has been provided, whilst the Pharmaceutical Laboratories, which have been very much enlarged, are furnished with all the most modern appliances for the manufacture of Galcuical Preparations.

THE MILL ROOMS contain the best class machinery, and a special feature is a number of stampers for powdering small quantities, so that Drugs which contain Volatile Oils can be ground fresh from time to time.

PILL DEPARTMENT.—New machinery has been put down for turning out Pills, either coated or uncoated, in large quantities, the coating used is soluble, and the best ingredients are employed with such excipients as are most suited for the particular mass required.

SOUTHALL BROS. & BARCLAY confidently appeal to the Retail Trade as well as large buyers for support. Being engaged themselves in Practical Pharmacy, they naturally understand the requirements of the Retail Trade much better than ordinary wholesale houses, and to illustrate this they would point to the following preparations which they introduced, and which are now being largely adopted by those engaged in Pharmacy.

DALTON STREET TO DALE END.

Show Room for Chemical Apparatus, Rooms for Analysis and the Manufacture of the finer Chemicals.

Pharmaceutical Laboratories, Crystallizing Room, and Furnace Room.

Drug Mills. Drying Rooms.

Scaling Rooms.

Room for Pill Making and Coating.

Room for putting up Specialities, e.g., Malt Food, Sea Salt, &c.

Rooms for the Manufacture of the Sanitary Towels, and Surgical Dressings.

POWDERED EXTRACTS such as NUX VOMICA, OPIUM, HENBANE, BELLA-DONNA, &c., &c., which contain weight for weight of the active drug, the excipient being an innocent powder like sugar of milk.

SOLUTIO FERRI IODIDI, as introduced by them some thirty-five years ago.

CALCIS HYDRAS, in bottles, just sufficient for making one gallon of LIQUOR CALCIS of standard quality.

CRETA & CAMPHORA, prepared with Precipitated Camphor.

SOLUTIO ETHERIS NITROSI, for producing SPIRIT. ETHER. NITROSI, P.B.

THEY HAVE ALSO, to meet the unfair competition in patent medicines and proprictaries, introduced several specialities, which they issue in good style, with descriptive label, but without name and address, so that the retail trade can adopt them as their own. Amongst these may be mentioned—

MALT FOOD FOR INFANTS, in 6d., 1s., 2s. 6d. and 6s. tins.

CARBOLIC ACID, for disinfecting purposes, in black fluted bottles, 6d. and 1s. size.

MARKING INK, in 6d. and 1s. cases.

INSECT POWDER, in tans.

LIME AND LEMON JUICE, LIME AND LEMON JUICE CORDIAL, ORANGE QUININE WINE, EFFERVESCENT SALINE, &c.

TO LARGE BUYERS.—SOUTHALL BROS. AND BARCLAY being Manufacturers of Pharmaceutical Preparations and Finer Chemicals, and Grinders of Drugs, are able to offer special advantages, and shall be glad to send quotations when requested to do so.



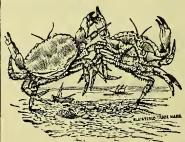
peratures. This Oil is obtained by a special process at our own Factory in Norway, and is free from all objectionable tarte and smell, and, from its digestibility, is regarded by the medical journals, and the many medical men who exclusively prescribe it, as the best in the market.

Eight Blue Trade Mark Labels supplied with each Winchester Quart.

The "En Norsk Fisker" Labels, in Colours, are sold at 26 per 100.

SOUTHALL'S "AQUARIUM" SEA SALT

SEA WATER BATHS



In each Box is Earthenware an Cup, which holds sufficient for one Bath.

and Delicacy

Brilliancy in

of Flavour.

Colour at

Low Tem-

PRIZE

MEDALS

HAVE BEEN

AWARDED

AT VARIOUS

INTER-

NATIONAL

TIONS

AND NCLUDE

FOUR

MEDALS.

ONE

COLD

SILVER M EDAI

AND TWO

BRONZE

MEDALS.

EXHIBI-

The Box is lined with waterproof paper.

The Salt being in coarse powder dissolves at once.

The manufacture of this article was brought about through our undertaking to prepare 200,000 gallons of Sea Water for the Aston Aquarium, and also a quantity for the Westminster Aquarium.

In the manufacture of Sea Water and Sea Salt we use various Chemicals, such as the Chloride and Sulphate of Magnesium, and the Chlorides of Potassium, Sodium, etc. An interesting fact is, that about Five Tons of Sulphate of Magnesia were required for the Aston Aquarium alone.

The Salt is packed in Boxes to Retail at 1/, 1/6, and 2/6 each. Wholesale, 9/, 13/, and 22/ per doz. of thirteen boxes, subject to the usual Patent Medicine discount.



AND

PRIZE

MEDALS

HAVE BEEN

AWARDED

THE

A I OIL AT

BRUSSELS,

PARIS.

BOURNE,

CHURCH,

ADELAIDE.

CHRIST-

TOWN.

CAPE

MEL-

LONDON

SPECIAL NOTICE.

SOUTHALL'S FOR LADIES

(PATENTED),

ARE NOW SUPPLIED AT 1s. & 2s. per dozen;

WHOLESALE:

& 20s. PER GROSS;

BRINGING THEM WITHIN THE

OF ALL CLASSES.

A NEW SHOW CARD IN COLOURS

Is now ready, and will be forwarded FREE on application.

Also Circulars supplied with Name and Address of Agent.

GAMGEE'S PADS, CAUZE TISSUE, ABSORBENT WOOL, ABSORBENT CAUZE,

Rendered Antiseptic by means of SUBLIMATED SERUM, CORROSIVE SUBLIMATE, Boracic, Carbolic, and Salicylic Acids, Eucalyptol, Iodoform, Thymol, &c.
The Sublimated Serum is prepared according to Professor Lister's process.

Sublimated Serum Powder, for Dusting. Sublimated Serum Ointment. Tenax. Wood Wool. Carbolised Tow. Millboard Spilnts, as suggested by Professor Gamgee. Southall's Hospital Plaister. Styptic Colloid.

SOUTHALL'S GUINEA

ACCIDENT BAG.

LOS SRES SOUTHALL HERMS. Y BAR-

CLAY tienen mucho gusto en anunciar á sus numerosos corresponsales en America del Sud, las Colonias inglésas y otros paises, que ya están concluidos los nuevos edificios que estaban levantando. Estos han sido erigidos de conformidad con los planos de algunos de los primeros arquitectos é ingenieros de Inglaterra y estan adaptados eminentemente para la continuacion de nuestros extensos negocios. Su distribucion es perfecta y los Sres S.H. & B., que siempre se han dedicado á atender á todos los requisitos de los Sres Farmacéuticos y Droguistas, estan en posicion de invitar sus pedidos con entera confianza, asegurandoles que como siempre continuaran dedicando el mas minucioso cuidado á todos los pedidos que se les confíe; y con las mayores facilidades que altora poseen para la ejecucion de drogas en bruto, para la fabricación de preparaciones farmacióntias y terra decembra de menos para la fabricación de preparaciones farmacióntias y terra de les relaciones de menos facilidades que al competito de preparaciones farmación de preparaciones farmación de preparación de preparaciones farmación de preparación de céuticas y para el despacho de géneros, se encuentran en posicion de poder hacer frente à cuanto de ellos se requièra por mucha que sea la urgencia ó estenso el pedido.

Entre los muchos aumentos y mejoras que se han hecho en el nuevo edifecio, los Sres S.H. & B., pueden mencionar particularmente sus grandes molinos de articulos de Droguería. Estos molinos han sido crigidos con el objeto de proveer á la clientela con drogas crudas en polros y que por lo tanto los Sres S.H. & B., pueden recomendar con la mayor confianza como legitimas y puras. No cabe duda que estos molinos se considerán de grande conveniencia para todos los Sres Farmacénticos y Droguistas de fuera de Inglaterra, siendo muy conocida la dificultad que hay en obtener polvos bien molidos y cernidos aparte de lo mucho que se prestan á la adulteracion.

Por muchos años, los Sres S.H. & B. han puesto grande atencion en el Departamente de fabricacion de pildoras y han erejido nueva maquinaría por medio de la cual las deutandas de esta conveniente forma de medicina pueden ser atendidas con prontitud. Ademas de los medios empleados usualmente pa la fabricación de pildoras, los Sres S.H. & B. hau introducido en su establecimiento una maquinaría ingeniosa para cubrir las pildoras con su afamada capa anacarada soluble que las cubre perfectamente y les da una superficié elegante suave y pulida; y es muy conveniente para la exportacion á climás cálidos, pues dicha capa no se quebraja con cl calor y conserva todos los ingrediéntes volatiles por

mucho tiempo que se les guarde pues los Sres S.H. & B. no han adoptado la manera usual de secarlas exponiendolas al calor.

Desde el momento en que los Sres S.H. & B. comenzaron á trabajar con países estrangeros, hace cosa de 20 años, se propusieron como regla inalterable el proveer solamente aquellas drogas que les he posible garantizar como de primera calidad y nunca vender articulos de clase barata ó sea inferiores considerando como cosa dada el que los Sres Droguistas y Farmacéu icos de fuera de Inglaterra saben distinguir entre lo bueno é inferior, lo cual parece otras casas no creen. Por el contrario los Sres S.H. & B. siempre han estado en la creencia que hay muchos Farmacéuticos en el extrangeros que saben apreciar las drogas de buena calidad y tienen sumos deseos de obtenerlas y de que esto es cierto, los Sres S. H. & B. están ahora convencidos por la frecuente repetíción de pedidos de sus productos.

Los Sres S.H. & B. continuaran la misma regla en lo sucesivo que la experiencia les enseña es tan buena como

Una numerosa asistencia de personas sumamente entendidas y completamente al corriente de las necesidades de la farmacía estrangera, es ventaja, sobre la cual los Sres S.H. & B. deben tambien llamar la atencion de sus

corresponsales.

Sus listas de precios publicadas cada trimestre para circulacion en el estrangero, estan impresas en español para la América del Sud y en inglés para las colonias inglésas y contienen informaciones completas sobre todas las novedades y drogas nuevas introducidas en la Farmacia inglésa, como tambien los últimos precios y otros particulares muy convenientes hasta la fecha. Los Srcs S.H. & B. tendran sumo gusto en remitir una de estas listas a cualquier Farmacéutico en el extrangero que la desée y que se sirva remitirnos su targeta comercial. Los precios en estas listas serán hallados muy moderados y compararán favorablemente con los de otras casas competidoras. Para grandes cantidades los Sres S. H. & B. tendrán mucho gusto en mandar cotizaciones especiales. Giros á 90 días despues de la llegada del barco es la

condicion invariable de los Sres S.H. & B.

Para la mayor comodidad de los Sres comitentes, los Sres S. H. & B. conducen su correspondencia y facturan en inglés, español ó Francés segun se desee.

Un dibujo de nuestra fábrica de aceite de higado de bacalao en Noruega, se hallará en l'ágina 2. Un anuncio sobre este aceite y otros informes, se encontrarán abajo.

ACEITE DE MIGADO BACALAO DE

Fabricado por Southall Herms. y Barclay, En Su manufactura de Aceite de Higado de Bacalao, Noruega.

MUESTRA DEL ROTULO QUE PONEMOS.



SOBRE EL TAPON CADA BOTELLA.

Se manda en condicion escelente en botellas de 8 onzas que se venden por menor á 2/6 c/u, botellas de 18 onzas, 4/6 c/u.

EMULSIS HYPOPHOSPH MORRHUÆ (SOUTHALL).

Emulsion de aceite de higado de bacalas con hipofosfito de cal.

Esta preparacion contiene 50 % del aceite de higado de bacalao AI, y I % del hipofosfito de cal, lo que forma una dosis en cada cucharada (cuchara de meso).

> Dosis.—Una ó dos cucharadas (cuchara para postre) dos veces cada dia. Vendido for menor en frascos de 8 onzas, 2/6; 18 onzas, 4/6.

BARCLAY. SOUTHAL

AGENTES POR MAYOR :-

BETTELEY Y CIA, VALPARAISO; TOMAS DAWSON, LIMA.

SOUTHALL BROS. AND BARCLAY anticipating an early enforcement of the Curriculum for students, have, in the erection of their new premises, opened a special department for the sale of CHEMICAL, PHYSICAL AND ELECTRICAL APPARATUS, AND PURE CHEMICALS. The principal room of this department is fitted up as a show room; and they offer the following sets of specimens and apparatus prepared specially for the use of Pharmaceutical Students.

PRICE LIST OF CHEMICALS AND APPARATUS FORWARDED ON APPLICATION.

FIFTEENTH EDITION.

MATERIA MEDICA EXAMINATIONS.

BRITISH PHARMACOPCEIA.

Further enlarged by additions to the B.P., etc.; and there is now included, in each Case. a copy of "The Organic Materia Medica," by W. SOUTHALL, F.L.S.

Large numbers of testimonials from students, professors, and the medical and Pharmaceutical press have been received. Catalogues on application.

Price of the Collection, in a Neat Wooden Box, 30/- net.
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SOUTHALL'S Collection of Chemical Apparatus

ARRANGED FOR THE USE OF "MINOR" STUDENTS.

Price of the Set, in a neat Wooden Box, 13/- each, net.

SOUTHALL'S

Collection of Chemical Specimons,

PREPARED FOR THE USE OF

STUDENTS IN THE CHEMISTRY OF THE BRITISH PHARMACOPŒIA.

The Price of this Collection, in a neat Wooden Box, is 25/- net.

SOUTHALL'S

Collection of Chemical Apparatus

ARRANGED FOR THE USE OF "MAJOR" STUDENTS.

Price of this Larger and More Complete Set, in neat Wooden Box, 30/- each, net.

SOUTHALL'S Non-Alcoholic Tinctures.

The British Medical Journal writes, "From their appearance, flavour and taste, they seem to compare favourably with the Spirituous Tinctures of the British Pharmacopæia."

Dr. J. Ridge, B.S., B.A., B.Sc., Physician to the London Temperance Hospital, says, "As to the therapeutical power of these new preparations I can only say that after a long trial of many of them I am not able to detect any loss of energy. They have been used for ten years at the London Temperance Hospital, and my colleagues have equal confidence in them."

The prices are considerably lower than the B.P. Tinctures.

THE FOLLOWING ARE EXAMPLES,—

Tinct. AURANTII ... 1s. per lb.

,, CATECHU ... 1s. ,

, GENT. CO. 1s.3d.;, . SCILLÆ 10d. ...

Price Lists free on Application.

A DISCOUNT OF 15 % ALLOWED TO THE TRADE.

PREPARED MALT FOOD

This article, neatly packed, the labels giving full directions, but without name or address so that it may be adapted by Chemists in their own name, is becoming largely used, and those who have not endeavoured to introduce it are invited to give it a trial.

In oval Tins, to retail at 6d., 1s., 2s. 6d., and 6s. each, Wholesale, 4s., 7s. 6d., 18s. 6d., and 40s. per doz., less 10 per cent. discount,

Or 42/- cwt. in bulk, less 5 per cent. discount.

In quantities of one gross of either size, special labels printed with name and address of Chemist.

The following Testimonials illustrate how the Food is appreciated.

"I am very pleased with the Malt Food; it sells well and gives great satisfaction. Please send me another gross as soon as you can, as we are nearly out of it."

"Am happy to say that the Malt Food is moving off; I sold nearly two dozen 1/- size last week."

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"The Malt Food answers admirably."

"I am getting great praise for the Malt Food, and have been asked for a larger size. Do you contemplate putting up, say a 2/6 size?"

We have also had an enquiry for a 6s. size, and, as will be seen above, the Tins at both prices are now ready.

MENTHOL, A1 BRAND

All Shapes and Sizes.

** TRADE

A1 BRAND	30. Paternoster Square, E.C.
MENTHOL	Prices, Styles, etc. (see over).
MENTHOL	Loose Cones supplied.
MENTHOL	Warranted pure Japan Menthol.
MENTHOL	Cheapest in the Market.
MENTHOL	Largest Assortment in the Market.
MENTHOL	Pretty Shapes.
MENTHOL	In Show Boxes.
MENTHOL	In Glass Bottles (Metal Screw Cap)
MENTHOL	In Turned Wood Boxes.
MENTHOL	In Boxwood.
MENTHOL	Al Brand.
MENTHOL	Of all Wholesale Houses.
MENTHOL	Order as Al Brand.
MENTHOL	Prices, etc., see over.
MENTHOL	Satisfaction Guaranteed.

"A1" Menthol Depot: 30, PATERNOSTER SQUARE, LONDON, E.C.

[Illustrations, see over.]

LONDON WC

MENTHOL CONES FOR THE TRADE.

(Warranted Pure, therefore no Stamp required.)

Style.	Selling Price.	Diagram.	GENERAL DESCRIPTION.	Price per Dozen.	Style.	Selling Price.	Diagram.	GENERAL DESCRIPTION.	Price per Dozen,
1	6d	JENT SO	In Glass Bottles, with Screw Caps	3/8	6	1/-		Boxwood (ordinary shape, on Pedestal)	5/-
2	6d		Plain Willow Boxes, lid serving as holder; flat surface to rub (not conical)	3/6	7	1/-	COT TO	Boxwood (Barrel-shape)	6/-
3	9d	Hall	Glass Bottles, with Screw Caps	5/4	,				
4	1/-		Glass Bottles, with Screw Caps (Menthol on Wood mount, serving as holder)	6,9	8	1,'-		Boxwood, Acornshape (a very pretty design)	6,'-
5	1/-		Glass Pottles, with Screw Caps (Bullet- shape Cones, en- veloped in Tin Foil)	6,9	9	1/-		Boxwood, Skittle-shape (especially suitable for the pocket)	6,'-

6d. Size .. 12 in a Show Box. 1/- ,, .. 6

Loose Cones supplied. Prices on application.

Special Quotations to large buyers.

Shippers can have the boxwood in dozen-boxes, containing 4-dozen of each of the four kinds, assorted.

Of all Wholesale Houses, or direct from the

"A1" Menthol Depot:

30, PATERNOSTER SQUARE, LONDON, E.C.

Order as "A1" Brand.



LATEST EXHIBITIO AWARDS.

First Order of Me:



PHILADELPHIA. =0=

Member of the J AMSTERDAM, 188

Two Silver Meda



=0Gold Medal, NICE, 1884. =0=

Diploma of Hono



LOND. INTERNAT.,1 =0

Gold & Silver Meda



LONDON HEALTH, 1

PRICES WITHIN.

bear the annexed Trade Mark Take Note that all Rimmel's

SAMPLES TO BE INSPECTED AND PRICE LISTS OBTAINED AT EXPORT WAREHOUSE, 96, STRAN

> LONDON WC

RIMMEL'S + LEADING + SPECIALITIES.

PERFUMES AND TOILET WATERS.

	PERFUMES	1	7 1 %	رز	10	ILEI VAMIERS.		
No.	Perfumes for the Pandkerchief	Contents.	London Price.	Price in Bond.	No.	Toilet Waters.	London Price.	Price in Bond.
1 2 3 4 4 5 6 7 8 8 9 10 16 24 28 a 28 29 30 31 32 33 34 40 a 41 46 55 55 56 52 a 53 a 57 58 61 62 63 64 66 7 68 70 74 77	SECOND QUALITY. Assorted Essences, flat bottles do.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	per dcz. 4/ 8/ 12/ 16/ 12/ 16/ 8/ 4/ 8/ 4/ 4/ 8/ 4/ 12/ 115/ 11	per doz. 2/9 4/6/8/12/7/3/6 7/3/6 7/4/8/6	110 111 112 114 115 108a 109a 1106 116 117 118 119 120 121 120a 121a	Toilet Vinegar, long square bottles do	per doz. 8/18/18/18/18/18/18/18/19/18/18/19/18/18/19/18/18/18/18/18/18/18/18/18/18/18/18/18/	EA Per dd.
	N.B.—A Sample Stand of 6 bottles presented gratis to purchasers of 12 doz best perfumes, and one of 12 bottles to purchasers of 24 doz. for the first time only.				4	N.B.—The above column of prices in bond only applies to Export Buyers. Goods ordered IN BOND must amount to at least £16, to be sufficient to make a Case. Any less quantity is quoted at London Prices.		

RIMMEL'S + LEADING + SPECIALITIES.

TOILET SOAPS AND PREPARATIONS.

_		oc.			,
10	Oreparations for the Bair.	Content	Price per doz.	No.	Toilet and Shaving Soaps.
	Acchainma vor van Suit.	S	- e		South and Shound South.
-	-:0:	oz.			:0:
2 F	Tair Oils, flat bots.—assorted	1	4/	301	Brown Windsor Soap, per 7lb. box
3	do. ,,	2	8/	302	do. superior ,,
	Best French Hair Oils, round bottles	1	8/ 12/	505	do. $\frac{1}{2}$ lb. packets, per doz
	Iygienic Oil, assorted perfumes lilia Oil, a superior article, in a case	$\frac{2}{2}$	12/	306 307	do. superior ,, do. best ,,
Ī		2	4/8/	308	do. Musk-scented ,,
) }	black metal caps	4	8/	312	Bar Soaps, 1st quality
	black metal caps stard do. in stypered bottles do. do do do	3	8/ 12/-	312a	D W. J. C
П	do. ,, do. ,,	5 6	15/	313 314	
Ŧ	do. "," " " " do. " in glass boxes " " "	2	8/	316	~ ""
	do. in glass boxes	2	8/	317	
	do. best quality, printed tops	1	8/	319	Almond and Honey Soap ,, ,, 4
	ueen's Pommade, superior, stopd. bots timmel's Stimulus, for the growth of hair	$\frac{2}{2}$	8/ 18/	322 323	White Almond Soap ,, ,, 3 5 do 41 4
Ť	Parisian Cream—extra fine assorted	3	18/	324	Purified Almond Soap ,, ,, $3_1^{\frac{4}{2}}$
J	amaica Pomatum, in pots, for warm climates	2	4/	325	Assorbedioaps, nanusome wrappers,, 02
I	layflowers Pommade, metal tops	2	8/	326	Glycerine Soan (deep vellow)
I	Iarrow Oil, round bottles, boxwood tops	$\frac{1\frac{3}{4}}{4}$	4/ 6/	327	do. , , 6 4 Best White ditto, in wrappers 3
	do. second quality, round bottles	8	10/	328 334	Best White ditto, in wrappers ,, 3 8 8 Savon de la Reine, finely scented ,, 3 8
C	rystallized Nutritive Cream, round stopd. bots	8	12/	334a	Extra-scented Toilet Soap ,, 4 12
1	Iillefleurs Pommade, in tins		18/	337	White Heliotrope Soap ,, 4 12
(llycerinc Pommade, boxwood tops	$\frac{2}{3}$	$\frac{8}{12}$	342	Transparent Soap, in tablets $1\frac{1}{4}$ do $2\frac{1}{2}$
T	Iniversal Cream, for the hair or skin	2	12^{i}	343 344	do.
	extract of Lime Juice and Glycerine	3	8/	341a	do., unscented,, $3\frac{1}{2}$
	do. ,,	5	12/	345	do. in balls $\frac{2^{\frac{1}{2}}}{2^{\frac{1}{2}}}$
T	do. ,,	$\frac{10}{2}$	18/	346 34€a	do. ,, 5 8 do. in bars 12 13
6	Sandoline—White or Pink enuine West India Bay Rum	9	36/	346b	do. in half-bars 8 8
I	epilatory, for removing superfluous hair	2	21/	346c	do. in metal pocket cases 1
	ustralian Hair Wash, for cleansing the Head	5	12/	348	nonevand pand Labicus
	hampoo Mixture, in stoppered bottles	10 5	18/ 12/	356	Army and Navy Soap, boxes of 3 cakes 4 2
6	gg-Wash, for the Hair	3	8/	357 359	do. \cdots , $\overset{\text{do.}}{\text{Coal Tar Soap, to purify the skin}}$ $\overset{\text{do.}}{\text{3}_2}$
I	Brillantine, for the hair and beard	2	12/	359a	Coal Tar Soap, to purify the skin 31 1 Transparent Coal Tar Soap 32 4
-	do. stoppered bots.		24/	360	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
1	do. stoppered bots. nstantaneous Liquid Hair Dye, brown in cases do. black with brshs		36/ 42/	365	Magnum Tablets, assorted colors 9 4
Ţ	Rimmel's Photochrome, a Restorer Pommade	1	24/	367 <i>a</i> 368	Dagong on Soup, in Source of Comment in
I	lew Blond Tineture, in bottles	6	36/	370	Transparent Strawberry Soap 4
	mperial Cosmetiques, assorted colours, paper cases		4/	331	Ordinary Soaps, 3 colours, in wooden boxes, per gross $\frac{1}{2}$ 12
	ndelible Cosmetiques, in boxes, with brush Cound Cosmetiques, wrapped in red paper	12	12/	333 340	do. ,, ,, $\frac{3^{\frac{1}{2}}}{3}$
1	do red paper	2	4/	331a	do. Baby Soap, assorted colours, boxes of 12 , $1\frac{1}{4}$ 8
(osmetiques, assorted colours, round metal cases	2	.8/	372	Malaktikon, for Shaving, square cakes per doz. 31
E	lungarian Pommade, for fixing Moustachies	1 2	12/	373	Cream of Almonds in drab pots, printed tops ,, 2 12
				374 375	do. with French labels ., 2 8 Naples Soap—plain or scented, in pots ., 1
				382	Transparent Shaving Soap, in sticks , 21
	The supportion of the Stin			390	The Officers' Shaving Soap, in metal cases ,, 2 8
	Preparations for the Skin.				
					2
	7 11 C 4 D				
(Cold Cream of Roses, in pots	1	4/		Dentifrices and Sundrics.
(do. ", printed tops	1	8/		
1	New Glycerine Cream, ,, printed tops	2	12/		-:0:
1	timmel's Lotion for improving the skin	3	21/	401	Assorted Tooth Powders, in wooden boxes 12
	Prême de Beauté, for the complexion Aay-Dew, a fragrant skin wash	$\begin{vmatrix} 1\\9 \end{vmatrix}$	8/ 18/	402	1 30 1 3
	Violet-Scented Oatmeal, in barrels	4	4/	$\frac{405}{403}$	Royal Dentifrice Tooth Powder
	Pure Glycerine for the skin	2	8/	411	
1	Perline, a fine Pearl White, in packets		8/	413	White Rose Tooth Soap, in metal case 1
1	Hebe Bloom, to revive natural colour, in packets		8/8/	414	Elixir for the Teeth and Gums 2 18 New Dentifrice Water, sweetly perfumed 3 2
10	Cheatre Rouge, in pots	1	- 14.	$\frac{415}{417}$	Tooth Powder, glass boxes, wood tops $1\frac{3}{4}$ 8
1	violet Powder, in 4 lb. packets	4	2/6	418	Hamigali a Tananaga Tooth Powder
	do. in barrels	4	/4	419	Cherry Tooth Paste, in illustrated pots 1 8
1	Nursery Powder, for infants, in barrels		2/6 /4 8/	420	Aquadentine, a fragrant Floral Tooth Wash 2 18
1 -	Rose Leaf Powder, in boxes	3	12/	$\frac{423}{424}$	Fumigating paper, in boxes Persian Fumigating Ribbon, in boxes
1	do ,, ,, with puff		18/	424	Sachets, for perfuming drawers
	Rice Powder, in packets		4	426	do. ,, large Perfumed Almanacs (a new design every year)
1	1 , , , , , , , , , , , , , , , , , , ,		8/	428	Postumed Almanage (a new design overy year)
1	do. in boxes	4	10/		reflumed Almanaes (a new design every jear)
	do. in boxes do. in elegant boxes, with puffs Poudre de Beauté, extra fine, in boxes	4	12/	429	Silk Scent Bags
	do. in boxes	1	12/ 18/		Fumigating paper, in boxes Persian Fumigating Ribbon, in boxes Sachets, for perfuming drawers do. , large Perfumed Almanacs (a new design every year) Silk Scent Bags Aromatic Vinegar, or Smelling Salts, in leather case Court Plaster, tricolour, in cases

EW · SANICARY · PERFUMERY.



DIPLOMA AND SILVER MEDAL, EASTBOURNE SANITARY EXHIBITION, 1881.

SILVER MEDAL, NATIONAL HEALTH SOCIETY, 1883.

SILVER MEDAL, INTERNATIONAL HEALTH EXHIBITION, SOUTH KENSINGTON, 1884.



RIMMEL'S AROMATIC OZONIZER

NATURAL AIR PURIFIER, +

And the only pleasant and non-irritant Disinfectant,

Producing by simple slow evaporation, the fragrant, reviving and health-giving emanations of the Pine and Eucalyptus Trees.

IMMEL'S AROMATIC OZONIZER is a fragrant Saw-Dust of Pine and other coniferous Trees, strongly impregnated with the Oil of the Eucalyptus and that of several plants of the labiate order, well known for their hygienic qualities. Simply left to evaporate slowly in a room, it diffuses the reviving odours of the forest, cools and purifies the air and destroys malaria and noxious animalculæ.

The sanitary properties of the Eucalyptus have long been known in Australia and Tasmania, and turned to account in curing fevers and diseases of the lungs and bronchial tubes. For the last twenty-five years, this tree has been introduced into the South of Europe and Algeria with wonderful success, its latest achievement having been to render healthy the Campagn of Rome, which had been hitherto a fever-stricken spot.

of Rome, which had been intherto a reversitiested spot.

The soothing and beneficial effects produced on the respiratory organs by the emanations of the Pine and most of the conferous trees have also been long known, and at Arcachon, Bournemouth, and other places, consumptive patients are sent to inhale the invigorating breezes of the Pine woods, which bring them immediate relief.

Rimmel's Ozonizer unites the active principles of the Eucalyptus and the Pine, and possesses the immense advantage of the Eucalyptus and the Pine, and possesses whilst possible them.

emitting a delicious and refreshing fragrance which cannot affect the most nervous or delicate persons, whilst nearly all other disinfectants have a nauseous and irritating odour. It is, moreover, free from the inconvenience attending all liquid disinfectants, which are liable to spill, and injure clothing or furniture. As to its efficiency, this is simply undeniable, for the Ozone it develops in the atmosphere not only covers but destroys all foul air and unpleasant smells. It will also keep away

Ozone it develops in the atmosphere not only covers but destroys all foul air and unpleasant smells. It will also keep away flies, mosquitoes, and other troublesome insects.

Its applications are almost endless; it is not only invaluable in private dwellings, hotels, clubs, offices, &c., but it will be found a great boon in saloons and cabins of ships, also in churches, hospitals, law-courts, school-rooms, theatres, halls, and all other places of public resort, where the air becomes vitiated by a great concourse of people. It is specially recommended for the Nursery, as its emanations are highly beneficial for the respiratory organs of children.

It is very easy to use, being simply spread on a plate and allowed to evaporate slowly. Dr. Hassall, who analysed it says in his official report: "A more effective and agreeable disinfectant has never been produced."

A detailed Prospectus, containing numerous medical and private testimonials, as well as most favourable opinions of the press, sent on application, and 500 with name and address, presented to any dealer ordering £2 worth.

Price, in 4 oz. tins, 1/- (by post for 15 stamps). 1 lb. tins, 3/6 (by parcel post for 48 stamps). Spreading Plate, 61.

RIMMEL'S CONCENTRATED LIQUID AROMATIC OZONIZER.

Price, in $1\frac{1}{2}$ oz. bottles, with Sprinkler, 1/-; in 6 oz. bottles, do., 3/6.

This is specially prepared for large establishments where economy is an object, or for exporting to distant parts, to save freight. A few drops thrown every morning on a plateful of fresh Pine saw-dust will purify and refresh the atmosphere wonderfully. It is also used to increase and revive the strength of the Aromatic Ozonizer in powder.

++ RIMMEL'S + OZONIZED + PERRUMERY. ++



Perfumer by Appointment to H. R. H. the Princess of Wales.

WHOLESALE AND EXPORT WAREHOUSE-96, STRAND, LONDON. PARIS BRANCH-9, BOULEVARD DES CAPUCINES.

BARNETT & FOSTER,

VINERAL WATER ENGINEERS,

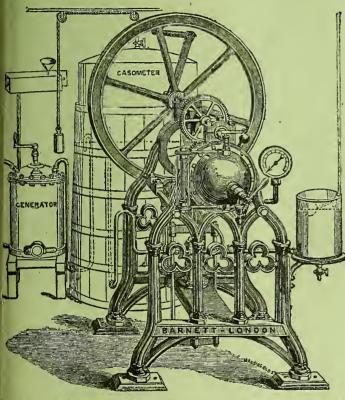
Manufacturing Chemists, and General Providers for the Aerated Water, Wine, Beer, and Cyder Trades,

NIAGARA WORKS," 26T EAGLE WHARF ROAD, LONDON, N.

THE "PRIZE MEDAL"

ONTINUOUS-ACTION SODA WATER MACHINE.

SHOWN AS READY FOR USE FOR HAND OR OTHER POWER.



Consisting of the Machine in frame, Gasometer. Generator, Solution Pan, Index Cocks, Safety Valve and Pressure Gauge on Condenser, Pipes, Spanners, and Fittings complete.

This is the class of machine invariably chosen and used by all the experienced makers in England and throughout the world. There are many of these machines now at work, made by us over forty years ago, which have required no other attention than an occasional cup leather.

A SELECTED LETTER FROM SOME THOUSANDS. From Mr. ROBERT BOLTON, Port Chalmers, Otago, New Zealand.

January, 1884.

EXHIBITION,

OF GOODS

HEALTH SAME CLASS

LEADING MANUFACTURERS

WITH OTHER

COMPETITION

THE HIGHEST AWARDS IN

GOLD,

Gentlemen,—Please send me per first ship leaving for Port Chalmers direct one of your No. 1 Machines complete with bottling rack. I have been using one of your machines in Port Chalmers for the last twenty years, and it has given the greatest satisfaction, and I hope that the one you send me now will be the same.

Note!—The whole system of manufacturing aerated waters by our process is so simple that technical knowledge is not required, as we give every information in our Book of Instructions and Recipes.

ſo.	1a	Machine	makes	1,800	doz.	Large	Bottles	per day			•••	£	2118	0	0	G
29	1	,,	,,	700	,,		,,	,,								
37	2	,,	,,	500	,,		** *	37		•••						
"	3	"	,, "	400	"		,,	>1	••••	•••	•••	•••				Š
>>	4	,,	12	300	•		39	>1	•••	***	•••	•••	55	_		1
"	5	,,	,,	200	,,	1.	**	,,	•••	•••	•••	••	50	0	0	170

Any description of filling machine can be attached, either for cork, patents, or syphon bottles.

The above machines are all of the same design, the difference being only in size.

Tote.—The above quantities are for lemonade or other saccharine drinks; if for splits, reckon double; if for highly-charged soda water, reckon half.

We supply these, where required, without gas-work, at the following prices:-

No. 1a, £70. No. 1, £55. No. 2, £50. No. 3, £45. No. 4, £40. No. 5, £35.

PRIZE MEDALS:

LONDON, 1862, 1873-74; PARIS, 1867-78; VIENNA, 1873; PHILADELPHIA, 1876; CAPE, 1877; First Awai SYDNEY, 1879-80; Four First-Class, CALCUTTA, 1884.

3 Gold, 2 Silver, 2 Bronze, International Health Exhibition, 1884.

BARNETT & FOSTER,

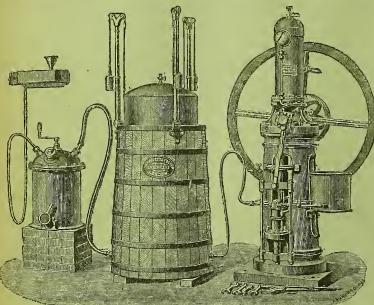
MINERAL WATER ENGINEER

Manufacturing Chemists, and General Providers for the Aerated Water, Wine, Beer, and Cyder Trades,

"NIAGARA WORKS," 26T EAGLE WHARF ROAD, LONDON, N.

THE "NIAGARA" SODA WATER MACHINE

(CONTINUOUS ACTION.)



Two sizes only of this machine are mad A and B size, consisting of-

The machine, with latest and importa improvements, fitted with water and pressu gauges, safety-valve, our celebrated pun with solid ram, and improved valve-box, & The gas plant consists of suitable size or gasometer and copper bell, pipes, weight uprights, &c.; generator made of thick leathe top flanged, with bolts and nuts, fit with strong gun-metal mixer, suitable in and outlet, also acid syphon box and pipincluding necessary pipes, connections, as spanners ready for use as shown above. At kind of filling machine can be attached.

Note!—The arrangement adapted for incoporating the gas and water is protected a Letters Patent, granted for the improve construction of the condenser, and we work caution purchasers of machines similar appearance, but not of our make, that wintend taking action at law against eith makers or users of any infringement of opatent rights.

CAUTION.—See that the word "Niagara" is engraved on each Condenser.

None are genuine without this, and are only indifferent copies of our Patent.

B size Machine makes 1,200 doz. large bottles per day (for hand or power), complete Without Gas Work (Machine only), £58 10s.

PUBLIC APOLOGY!

To Messrs. BARNETT & FOSTER, Eagle Wharf Road, London, N.

Gentlemen,—We apologise for having copied in our abridged Catalogue the illustration made in yours, of the "Niagara" Soda Water Plant and we undertake to withdraw the illustration from circulation in our catalogue or otherwise, and to destroy all our copies of it. You are at liberty to advertise this apology as you think fit.

Dated 10th January, 1884.

(Signed)

BRATBY & HINCHLIFFE.

Great Britain. Circulating largely throughout the United Kingdom, America, and the Colonies; is the recognised medium for all practical knowledge and novelties connected with the above trades. Subscription, 2s. per annum for home, and 5s. fo abroad; specimen copies 4d. each, post free. Office, 27 Eagle Wharf Road, London, N.

PRIZE MEDALS:

ODON, 1862, 1873-74; PARIS, 1867-78; VIENNA, 1873; PHILADELPHIA, 1876; CAPE, 1877; First Award, SYDNEY, 1879-80; Four First-Class, CALCUTTA, 1884.

3 GOLD, 2 SILVER, 2 BRONZE, INTERNATIONAL HEALTH EXHIBITION, 1884.

BARNETT & FOSTER,

INERAL WATER ENGINEERS,

Manufacturing Chemists, and General Providers for the Aerated Water, Wine, Beer. and Cyder Trades, VIAGARA WORKS." 26T EAGLE WHARF ROAD. LONDON. N.

IE "PETITE" SODA WATER MACHINE.

Especially designed for Chemists and Druggists, Hotel Keepers, Coffee Taverns, Refreshment Houses, Confectioners, &c., and for those doing a large retail business.



OVER 1,000 OF THESE SMALL MACHINES

OBSERVE!!

We originated the design of this machine about 10 years ago, since which time we have improved the detailed construction, and its success has again brought copyists. It was introduced by us originally as the "Chemist's" machine, and latterly we call it the "Petité." We would advise purchasers to see they get the genuine well-tried machine.

ARE AT WORK IN DIFFERENT PARTS OF THE WORLD.

PRICE COMPLETE, £30.

This machine is capable of producing about 1,000 large bottles per day. It comprises a strong gun-metal pump, with valve-at top; a strong copper globe, made to open if required, and fitted with blow-off valve, with connection for bottling machine; ugitator driven by toothed wheels; solution pan, &c., mounted on stand; a strong oak tube, iron bound; copper bell with blow-off cock at top, pipes, and connections, forming gasometer; stout lead generator, with tinned copper agitator; gun-metal gs and pipes; syphon box and pipe for supplying acid to generator; and all necessary requisites, including spanners to fit y bolt and nut. The whole mounted complete on cast-iron frame.

Full directions and Recipes sent with each Machine.

FORMA INVOICE FOR A CHEMIST'S COMPLETE PLANT:-			
1 "Petite" Soda-water Machine, with pipes, connections, spanners, gauges, &c., as above	£30	0	0
The "Challenge" Filling Machine, for Foster's Patent "Intermittent" Screw-stoppered Bottle (without Syrup)		
Pump)	. 10	10	0
(Syrup Pump extra, £8 8.)			
5 gross Foster's Patent "Intermittent" Screw-stoppered Bottles, at 25s	. 6	5	0
10 lbs. each kind of Concentrated Compounds, for Lemonade, Ginger-beer, Ginger-ale, and Orangeade,	,		
containing all ingredients except sugar at 2s. 6d. per lb.	. 1	5	0
1 Hand Bottle-brushing Machine	. 1	10	0
Packing all the above for Export, extra, £3.	£49	10	0

For Prices of Bottles see page vi. of this Supplement.

BARNETT & FOSTER'S

NIAGARA"

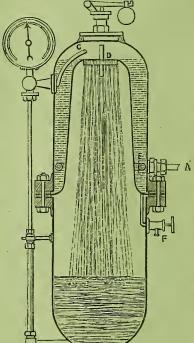
Dispensing with the use of Frictional Agitators for mixing the gas and water together.

PLEASE READ

This system of Aerating Water -introduced by us-was patented in 1879, at which time there was no machine in the market without a revolving frictional agitator.

The success of this system has been the cause of machinists introducing other kinds of sodawater machines without agitators, but a brief description of the modus operandi will, we think, be sufficient to prove the superiority of our system over others, which in most cases are but indifferent copies.

By introducing carbonic acid gas and water into a cylinder,



CAREFULLY

through a perforated tube, th water becomes only partiall charged with gas, according t the pressure at which the machin is being worked; but the wate cannot instantly take up all th gas it will when time is allowed for the operation, the machine therefore which have this arrange ment alone to depend upon canno use all the gas that is intro duced in the cylinder, and mus consequently be fitted with a re ceptacle at the top, in which the surplus gas is collected, and from which it may at intervals be blown off and so wasted.

To have a receptacle at the top of a cylinder from which to blow off the air from the water is at absurdity, and the only reason for having it, is that the water not being long enough in contact, the gas is not taken up by the water, and thus some must be blown off to allow more water to enter causing great waste of gas, and never giving a good result. If it were possible to get the atmospheric air to separate from the water and go into a separate receptacle, why is this so-called air receiver not put on all machines whether with or without frictional agitator?

According to our system, "The NIAGARA" (see section), the introduction of gas and water through a perforated tube is only the commencement of the operation. In the compartment E, shown in sectional drawing above, the water is delayed to give it time to absorb the gas, and it passes subsequently over a perforated plate, p, and falls through the body of the cylinder fully charged with compressed gas By this means, the water is divided into separate particles, like rain, and absorbs all the gas which is introduced into the cylinder, and therefore none requires to be blown off. Perfectly saturated water is thus produced at ordinary pressure, and no receptacle is needed from which to blow off any surplus gas. All waste of gas and pumping power is therefore avoided, and the result also is a highly gassed water.

On the next page we beg to submit a few Testimonials from amongst many we have recently received, and we confidently assert no other system yet introduced will produce an aerated water so pungent and sharp as this.

omions from a few of our customers (received within the last six months) who have many cases worked also the old-fashioned plan with Frictional Agitators, and therefore can judge best of the improvement:—

m Messrs. F. CADE & Son, King Street, Cork.

beg to enclose you bank order to settle my account for the new chine, and must say I am well pleased with it. It is keeping three us well at work, and is in every way up to my expectation.

180-We have the "Niagara" now at work in one of our branch houses; people there report it to be working admirably.

180-The "Niagara" has given us great satisfaction; we believe the eiple to be excellent, and hope to give you an order for one or two ger ones before next season. (This firm has since bought these)

m Messrs. J. MACKAY & Co., Edinburgh.

We have much pleasure in stating that the new "Niagara" machine plied to us some months since is giving every satisfaction, and we leve it aërates the water more thoroughly than the old style of couser did

Oct., 1884.—Have received repeat order.

m BARCLAY, CLAYTON & Co., Southwark, S.E.

We are glad to inform you that we have found the machine all that you ted to us, and it has been at work ever since in a most satisfactory nner. We cousider it altogether as perfect a machine as can be made

m Messrs. SOUTHWELL & Co., Gosport.

We have great pleasure in being able to add to the numerous tes-onials you have received with respect to your excellent soda-water chinery. The "Niagara" machine (B size) supplied by you has given

om Messrs. FRY & Co., Brighton.
In reply to yours, we have used the "Niagara" machine since you fitted it last January, and have found it work quite to our satisfaction.

Jan., 1885 .- Have just received a repeat order.

om Messrs WHITMARSH & Son,

Manor Street, Plymouth.

The B size "Niagara" sodi-water machine we purchased from you for uking 1,200 doz. per day is doing its work well. 1 can highly recommend as it works with ease and quietuess, and—the main thing—turns out a

om J. WILTON PARKER, Esq., the Prince of Wales

Aërated and Mineral Water Manufactory,

626, Commercial Road, London, E.

I am pleased to state that we have found your "Niagara" aërating linder to work most satisfactorily. The invention is a great improve-ent on the old agitator, and undoubtedly supersedes for simplicity and ficiency anything else of the kind that has been brought forward.

rom the Bridgewater Aerated Water Company,

High Street, Bridgewater. Water Company,
High Street, Bridgewater.
We are pleased to be able to inform you that the "Niagara" aërating linder you supplied us with in December, 1880, is still working satisfactily. We find that our waters are better aërated than when using the delass of cylinder, and at the same time doing away with the inconenience of cup leathers.

rom H. T. BUTLER, Esq., Secretary to the Chemists' Aërated and Mineral Waters Association (Limited).

Having for the past sixteen months heavily tested your "Niagara" rating cylinder, I have much pleasure in stating that it has greatly seeded my expectation, both as regards the aeration of the water and ne amount of work done.

rom Messrs. BATEY & Co., 216, Kingsland Road, London, E.

Having now had one of your "Niagara" cylinders in constant use in ur factory for the last twelve months, we have much pleasure in stating hat it has quite come up to our expectations, and we much prefer it in very respect to the horizontal cylinders with frictional agitators.

rom Mr. STEVENSON, Whitby.

It affords me much pleasure to inform you that the "Niagara" soda-water archine which I had from you about three months ago is working well, and has in every respect given me the greatest satisfaction.

'rom Messrs. POUND & Co., Swindon.

We have great pleasure in being able to state that the "Niagara" aachine which we purchased from you twelve mouths ago has given us very satisfaction, and we have every confidence in recommending the ame to the trade as being the most substantial machine in the market.

rom the DURDHAM DOWN Aerated Waters Company,

We are exceedingly pleased with the "Niagara" machine you supplied is with early last year. It is simple in construction and effective in prolucing a highly-charged and permaneutly-gassed water. We have had not the slightest trouble in working-sometimes by inexperienced hands—our outliness; and to acknowledge our appreciation is a duty.

From Messrs. TILBURY & Co., North Camp Brewery, Farnboro'.

In reply to yours, we may say that the "Niagara" soda-water machine supplied by you last year has given us every satisfaction, and is still working well. Wishing you every success, &c.

From the Secretary, Selby Brewing & Wine Co., Selby.

The Directors have pleasure in stating that the "Niagara" machines supplied by your firm for making soda water, &c., have been in constant use, and given them satisfaction in every way.

From Mr. G. BANKS, 12, 14, 16, and 18 Church Street, Deptford.

The "Niagara" acrating cylinder I had from you in March, 1881, has been in constant use ever since, and I am very pleased with it; the water is more acrated, with no noise at work.

From Messrs. MOULD & Co. Chorley, Lancs.

We have great pleasure in stating that the "Niagara" plant you supplied us with has given entire satisfaction, and is, without a doubt, not only in our opinion, but of others who have seen it, a most perfect plant. The goods it makes are of the best quality, being free from any metallic flavour, and the general arrangements are good, there being very little wear and tear; in fact, it is a most effective and handsome plant.

From Mr. S. VOSPER, Stonehouse, Devon.

The "Niagara" soda-water machine and plant you supplied us with last summer, I am pleased to inform you, is working admirably, our customers being much pleased with the drinks. Wishing you every success for the coming season, &c.

From Messrs. MALLETT & Co., Truro.

This is the second time you have supplied us with your valuable machinery for making aërated waters, and we are very much pleased with the "Niagara" machine, as well as the plant sent to us some thirteen vears ago.

From Mr. W. HANNAM, Albert Club, Cardiff.

It affords me much pleasure to inform you that the "Niagara" unachine supplied by you last spring has not aloue given me the greatest satisfaction, but has been pronounced by engineers in this town to be as near perfection as it is possible to be. It not only realises but surpasses my expectations, and I can recommend it to any person in the business without any fear of being disappointed in the results.

From Mr. J. H. PAYNE, Manager Champion Mineral Water Co., Kiugsland Road, E.

We have pleasure in informing you that the "Niagara" machine has been constantly at work without the slightest hitch having occurred. It performs to our satisfaction, the aëration of the water being all that could be

From Mr. E. EDWARDS, Brewery, Botley.

Having now given the soda-water machine a fair trial, I am pleased to say it gives me perfect satisfaction.

From Messrs. BINNS BROS., Aberystwith.

Respecting the new cylinder we beg to say that it acts very satisfactorily indeed. We find that the water is thoroughly well charged with gas. Also we notice that water made by your cylinder has a more palatable taste, as it is free from metallic or hard flavours. We can confidently recommend your cylinder to those who wish to produce pure drinks and at the same time do away with the inconvenience of cup leathers. We are particularly pleased with the design and workmanship of the machine.

Also—The new cylinder. We beg to say that it continues to give great satisfaction, and you are at perfect liberty to make what use you please of our letter, and also to refer any intending purchaser to us.

From Messrs. HANBURY & Co., Brewers, Taunton.

In reply to your letter of the 3rd inst., we are pleased to be able to state that the abrated water machinery you supplied and fixed for us gives great satisfaction, and we nud everything works well and conveniently.

From Mr. C. S. COBLEY, Midland Road, Wellingborough.

I have great pleasure in stating that the "Niagara" Cylinder I had from you two years ago has yielded such advantages from its use that I can certify that this is a valuable and most suitable machine for mineral water manufacturers.

From Messrs. H. & F. GOMM, 3 Salisbury Street, Bethinal Green.

Having had one of your "Niagara" machines in constant use for the last four years, we beg to say that it is as good now as when we first had it, not having had any trouble or expense with it.

EAGIDITIUM.

CLASS BLUALA SAME THE TANKET TO VALUE A VALUE OF MANUFACTURERS

> LEADING OTHER HLIM COMPETITION

FIG. 6.

AWARDS HIGHEST THE

Fig. 9.

Figs. 13

PRIZE MEDALS:

LONDON, 1862, 1873-74; PARIS, 1867-78; VIENNA, 1873; PHILADELPHIA, 1876; CAPE, 1877; First Award SYDNEY, 1879-80; FOUR FIRST-CLASS, CALCUTTA, 1884. 3 GOLD, 2 SILVER, 2 BRONZE, INTERNATIONAL HEALTH EXHIBITION, 1884.

WATER

Manufacturing Chemists, and General Providers for the Aerated Water, Wine, Beer, and Cyder Trades, NIAGARA WORKS," 26T EAGLE WHARF ROAD, LONDON, N.

For Mineral Waters; particularly adapted for Tropical Climates.

The cleanest and most convenient for Filling and Opening.

Fig. 5, per gross:—Holding 5-oz., 13/; 10-oz., 15/; 14-oz., 16/; 16-oz., 17/.

Lignum-Vitæ Stoppers for above, 13/ per gross.

Strong Crates holding two gross, 3/9 each.

THE PATENT GLOBE-STOPPERED

With indent at Neck, to hold globe away while emptying, Fig. 6. Bottom, ,,

PRICE, including Rings :-

Fig. 6, per gross, 5-oz., 28/; 10-oz., 30/; 14-oz., 31/; 16-oz., 32/.

5-oz., 23/; 10-oz., 25/; 14-oz., 26/; 16-oz., 27/.

Extra Rings, 2/9 per gross.

Strong Crates, holding one gross, 2/9 each.

CORK SODA-WATER BOTT

FIG. 5.

Figs. 9 to 12, per gross:-

5-oz., 11/3; 10-oz., 14/; 14-oz., 15/; 16-oz., 16/, either shape.

PLAIN BOTTLES KEPT IN STOCK.

Mould charged 30/ for marked bottles. For 50 gross of one kind mould is supplied

16

PATENT BOTTLES WITH SCREW STOPPERS FOR EVERY PURPOSE.

Such as Beers, Hocks, Clarets, Champagne, Wine and Spirit Bottles; also Flagons, or any shape of Bottle.

Figs. 13 and 15-Beer Bottles, Imperial Pints, 16/-; Half Pints, 15/- per gross-Fig. 14-Hocks, Clarets, &c., Special Quotations.

Fig. 16-Amber Flagons, Imperial Quarts, 36/-; Ditto Pints, 32/- per gross.

Glass, Stoneware, or Wood Stoppers, 13/- per gross.

CORKS.

IN CASES WITH MACHINERY. (A LARGE STOCK ALWAYS ON HAND.) 9d. to 1s. per gross For Stone Ginger-beer Bottles

2s. to 3s. Soda and other Mineral Waters 1s. 9d. to 2s. Lemonade and other Saccharine Drinks ... 3s. 6d. Fruit Champagne 10s. 6d. to 15s. Real Champagne, to give the bulbus head

ENTD. STATIONERS

PRIZE MEDALS:

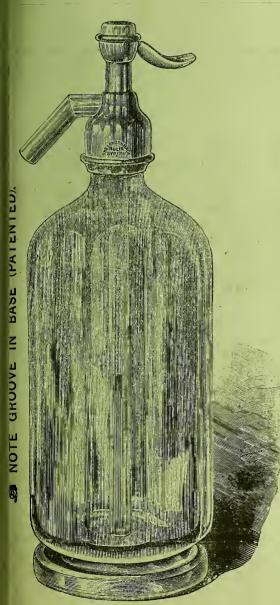
ONDON. 1862 1878-74; PARIS, 1867-78; VIENNA, 1873; PHILADELPHIA, 1876; CAFE, 1877; FIRST AWARD. SYDNEY, 1879-80; Four First-Class, CALCUTTA, 1884. 3 GOLD, 2 SILVER, 2 BRONZE, INTERNATIONAL HEALTH EXHIBITION, 1884.

BARNETT & FOSTER,

MINERAL WATER ENGINEERS.

Manufacturing Chemists, and General Providers for the Aerated Water, Wine, Beer, and Cyder Trades,

"NIAGARA WORKS," 26T EAGLE WHARF ROAD, LONDON, N.



THE "LONDON-MADE"

SYPHON BOTTLE

The high reputation this bottle has achieved is due to the fact of its being in every particular the most perfect yet introduced; and when compared with others in the market it stands pre-eminent. It is most simple in its working parts, therefore the least liable to get out of order; it is the most casily opened, the lightest pressure on the handle being sufficient; it produces a more highly-charged gaseous water than is usually obtained from syphons; it compares most favourably in appearance with any, and, the metal top being entirely free from lead, the projudice against syphon drinks is at once removed, as the liquid passes over pure tin only.

All our Syphons are now fitted at the base with groove, so that drips from the spout that run down the sides are prevented from soiling the table. See drawing.

PRICES.

WHITE, BLUE, GREEN, OR AMBER-

By the Gross, Less than 1 Gross, Quart Size 22/ 24/ Pint Size 21/ 23/ Half-pint, Pear shape 20/ Octagonal Vases, any colour (including Azure Blue) ... 26/

Tops, nickel-plated, from 5s. 6d. per dozen extra.

Tops, silver-plated and burnished, from 9s, per dozen extra.

A charge is made for packing, except when ordered in our patent bin cases (holding one dozen each, price 2s. 6d. each).

Special Prices and Terms to Large Buyers.

NOTE.

Syphons made with our patent foot for collecting excess of liquid dripping from the spout after use are supplied at no extra charge, and will be found of great utility in preventing stains, &c., upon table linen. This is a desideratum long been wanting, particularly for private-house use. Send for sample, forwarded upon receipt of 2s.

my name, crest, or trade-mark put on the glass by an improved acid process, at from 18s. to 24s. per gross. There is a ree-fold advantage in this, as it forms a continual advertisement, is a great ornament, and a preventive of fraud. The plate for engraving costs extra from 5s. upwards, according to the artistic device required.

SILVER,

PRIZE MEDALS:

LONDON, 1862, 1873-74; PARIS, 1867-78; VIENNA, 1873; PHILADELPHIA, 1876; CAPE, 1877; First Award SYDNEY, 1879-80; Four First-Class, CALCUTTA, 1884.

3 GOLD, 2 SILVER, 2 BRONZE, INTERNATIONAL HEALTH EXHIBITION, 1884.

BARNETT & FOSTER,

WINERAL WATER ENGINEERS

Manufacturing Chemists, and General Providers for the Aerated Water, Wine, Beer, and Cyder Trades,

"NIAGARA WORKS," 26T EAGLE WHARF ROAD, LONDON, N.

he great number of Testimonials we have red for this machine, we append the following, not having room for more:—

Mr. H. LEE, Berkhampstead, Herris.

I forward amount due from me for the 'Ex
**Ex
**Ex-

"THE EXCELSIOR"

TURNOVER FILLING MACHINE

PATENTED AND DESIGN REGISTERED.

This latest patent is a great improvement on any filling-machine yet introduced for filling all kinds of internal-stoppered bottles. The regulating of the syrup is done momentarily by means of the thumb-nut on top, from zero up to any required quantity. The rate of speed for filling any kind of internal-stoppered bottles is 80 doz. large bottles syruped and filled, or 100 doz. splits. The working-parts are self-contained, and can be disconnected off the pillar for repairs, packing, &c.

This machine is now in use and giving the greatest satisfaction in all parts of the world.

The following are some of its Special Advantages:-

Skilled labour is entirely dispensed with, as it can be worked with ease by a girl or boy!!!

It is not liable to get out of order, having but few workingparts!!!

It is most economical in use, and is strongest and most durable!!!

It effects a great saving in gas, syrup, and aërated water !!!

An extra glass barrel for syrup-pump is supplied at no extra charge!!!

It is the simplest and quickest filler in the market !!!

PRICE, complete, with Glass Barrel, Syrup Pump, and all recent improvements, £10 10s., including Extra Glass Barrel and set of Spanners.

Great Britain, circulating largely throughout the United Kingdom, America, and the Colonies. Is the recognised medium for all practical knowledge and novelties connected with the above trades. Subscription, 2s. per annum for home, or 5s. for abroad, (specimen copy, 4d. each) post free. Office, 27 Eagle Wharf Road, London, N.



WARDED BY LE WARDE

(Expositions & Internationales & Grand & Prize & Medals.)

ALBERT M. TODO,



"CRYSTAL WHITE," DOUBLE REFINED SSENTIAL OIL AND CRYSTALS OF TRUE PEPPERMINT.

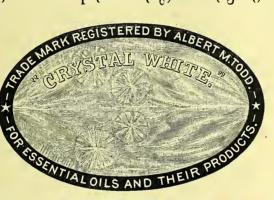
HE "CRYSTAL WHITE," ESSENTIAL OIL and SOLID CRYSTALS OF PEPPERMINT are produced from SELECT CULTIVATED PLANTS of GENUINE MENTHA PIPERITA, under improved and special processes (discovered by the manufacturer), by which they combine EXCEEDING STRENGTH with the most PERFECT FRAGRANCE and ABSOLUTE PURITY. Being freed from the oleo-resin, they are overy white, and dissolve readily and clear in spirits without filtration. In recognition of their quality they have received the highest commendation from most EMINENT SCIENTISTS, the LEADING CONSUMERS, and at the GREAT EXHIBITIONS. Prepaid Samples and quotations for free twenty in any city of America, Europe or the Colonies, will be sent on application.



GENERAL CABLE ADDRESS, "CRYSTAL, NOTTAWA, MICHIGAN."

Trade Mark, & CRYSTAL WHITE & Registered &

Nottawa, St. Joseph County, Michigan, U.S.A.



PIPMENTHOL---CRYSTALS OF TRUE PEPPERMINT---(Crystalla Menthæ Peperitæ.)

On the above plate are seen some of the stellated forms in which PIPMENTHOL CRYSTALS range themselves during the process of crystalization.

PIPMENTHOL CRYSTALS are produced solely by A. M. Todd, by a process discovered by him, special apparatus invented by him, for which letters patent have been granted.

For the opinions of eminent scientists and leading consumers, and special information relating my Crystal White Products, please see following pages. Also for some interesting editorials and alyses please see the American Druggist for April and the American Journal of Pharmacy for June and August. Further particulars will also be published in the next number of The Chemist and truggist.

All CRYSTAL WHITE Products are POSITIVELY GUARANTEED to be of SUPERIOR QUALITY and ABSOLUTELY PURE.

Very respectfully,

A. M. TODD.

Crystal White Essential Oil Works, Vottawa, St. Joseph County, Michigan, U. S. A. CRYSTAL WHITE ESSENTIAL OIL WORKS, NOTTAWA, MICH., Dec, 1884.

To Manufacturing Chemists, the Drug Trade, and the Medical Profession:

GENTLEMEN:

I have the honor to place before you a few words relating to PIPMENTHOL, and extracts from very kind letters received from eminent scientists relating thereto.

It was during the first week in January of the present year (1884) that, after over two years' study, I was able to join the connecting links of the process for crystalizing Oil of True Peppermint—Oleum Menthæ Peperitæ. I then manufactured something over 125 pounds of the solid Crystals; and as my other business in the Essential Oils then occupied nearly all my time, I was obliged to content myself by announcing the fact of the discovery to a few acquaintances privately only. In the latter part of February I visited New York and showed specimens of the Crystals to a few of my friends there, and also left some specimens with Prof. R. Ogden Doremus, M. D., LL. D., at Bellevue Hospital Medical College, for analysis. These specimens afterwards came under the notice of Dr. Charles Rice, Chemist, —Chairman of the Committee for Revision of the U. S. Pharmacopæia—(whom I did not have the pleasure of meeting, however). As the crystalizing of Ol' Menthæ Peperitæ had heretofore been supposed impossible, that gentleman wrote me soon after my return to inquire "whether the "Crystals were really obtained from Mentha Pep-"erita, or whether his informant (Prof. Doremus,) "had misunderstood me?" Upon receiving my reply that the Crystals were really produced from that plant, he replied in a most kind letter of congratulations, from which I make the following extracts:

COMMITTEE OF REVISION AND PUBLICATION OF THE PHARMACOPEIA OF THE UNITED STATES OF AMERICA, FROM 1880 TO 1890.—CHARLES RICE, PH. D., CHAIRMAN OF COMMITTEE.

NEW YORK, March 22, 1884.

ALBERT M. TODD, Esq. My Dear Sir: Your letter received. I am surprised and rery much pleased to learn that you have succeeded in doing what nobody else succeeded in doing, namely: to separate the Crystaline Stearopten from American Oil of Peppermint. This is an important matter, and should be announced to the scientific world in a suitable manner.

To show my appreciation of your discovery, I wish to put you in the way of getting credit of the discovery, as well as any financial benefit, at the hands of the severest critics, and would recommend very strongly that you forward a sample of the Crystals, as well as a brief note, stating, over your signature, that they

were obtained from the Oil of Mentha Peperita, to Prof. F. A. Fluckiger, of Strasburg, the recognized authority on these subjects, who takes the most lively interest in them, and whose verdict can be of the greatest usefulness to you. You may mention the fact that I suggested it. I do this not because I doubt that I suggested it. that you have ample command of your market, but because I know the skepticism of scientists, who might often put a damper on a good thing by doubting the genuineness of it.

I shall drop a letter to my friend, Prof. Fluckiger, briefly announcing the fact of your discovery, and rely upon you for following it up with a sample.

Very truly yours,

CHARLES RICE.

After receiving Dr. Rice's letter, I sent specimens of the Crystals to Prof. Fluckiger, as suggested, and had the honor to receive from the Professor a four-page letter, with congratulations, from which I make the following extracts:

STRASSBURG, GERMANY, May 15th, 1884.

DEAR SIR: I must apologize for not sooner having returned my thanks for your favor of April 1st, and the valuable specimens which I received in due time. Having been absent for several weeks, the examination of your Menthol was delayed until now.

In the first place I was agreeably surprised to find that an American distiller had succeeded in extracting that substance from American Oil. I never understood why this should not be possible. Secondly, having in my collection the finest specimens of Menthol, made by Messrs. Schimmel & Co., Leipzig, the most distinguished distillers in Germany, I am pleased to say that the odor of your article is quite as pure and strong, and far superior to the Japanese Menthol as usually met with.

I ascertained that your Menthal melts at 42° (' $(107.6^{\circ}F)$ and boils at $212^{\circ}C$ (413.6F), perfectly agreeing with the purest Menthol known.

Now as to your suggestion, allow me to state, that many years ago the eminent French Chemist, J. B. Dumas, (April 11th, 1834,) had already noticed Menthol to be deposited in American Oil of Peppermint; and I have perfectly well succeeded in abtaining immediately a good crop of Menthol by distilling a few pounds of Japanese Peppermint in my laboratory.

* * * It is true that the Menthol it yields wants re-crystallisation on account of an oil of an inferior smell. yet after due purification the Japanese

rior smell, yet after due purification the Japanese Menthol would appear to become as nice as yours

You will also greatly oblige me by sending some statistical information in the same way as your interesting paper in the proceedings of the American Pharm. Association, 1876, p. 828.

The oil which you kindly sent me exhibits in a slight degree the magnificent coloration which I described in the Pharmacogrephia, second edition, (1879) p. 483. * * *

I am greatly indebted to you with regard to the question under notice, and sincerely congratulate you for your success.

Believe me to remain, dear sir, most thankfully, Yours sincerely,

PROF. FLÜCKIGER.

To Albert M. Todd, Esq.

Letter from R. Ogden Doremus, M. D., LL. D., Professor of Chemistry and Toxicology in Bellevne Hospital Medical College, and Professor of

Cemistry and Physics in the College of the City New York:

BELLEVUE HOSPITAL, MEDICAL COLLEGE, NEW YORK.

M. ALBERT M. TODD:

EAR SIR: I have analyzed the sample you gave of beautifully white and fragrant crystals of Menof from the Mentha Peperita.

find them perfectly pure, entirely free from even trees of lead or copper, and not adulterated with Sulter of Magnesia, as are some of the Japanese crystals. have distributed portions of the crystals to some one most eminent physicians in New York. I have administered them. I find them to be pleasant. a padministered them. I find them to be pleasant, a matic stimuli. They relieve neuralgia and headane even by external application,—when taken innally they allay spasmodic pains of the stomach al digestive tract.

take pleasure in cordially commending them to

medical profession and to the public.

Please send me some more of the crystals for my ofessional friends. All, thus far, are delighted with Yours respectfully, R. OGDEN DOREMUS, M. D., LL. D.

From a letter from Prof. John M. Maisch, I. D., of the Philadelphia College of Pharmacy, d Permanent Secretary of the American Pharaceutical Association, who endowed the crys-Is with the name of Pipmenthol, I take the folwing extracts:

AMERICAN PHARMACEUTICAL ASSOCIATION,) ORGANIZED OCTOBER 7, 1852.

OFFICE OF THE PERMANENT SECRETARY Philadelphia, May 21, 1884.

R. ALBERT M. TODD:

Allow me to congratulate you on ur success. The crystals are certainly all that can desired, and those silky stars which you enclosed the box came in perfect order.

I am delighted with the results.

As regards a name, I would suggest Pipmenthol, hich is in analogy with the names for other proxiate principles, and very appropriate—even if the enthol (Japmenthol) from Mentha Arvensis should ove to be chemically identical with it.

My friend, Professor Henry Trimble, of the Philalphia College of Pharmacy, will, I think, make an
timate analysis of your Pipmenthol, and perhaps
vestigate it further.* I would also suggest you to
nd a sample to Prot. F. B. Power, of the University
Wisconsin, who has paid special attention to volalevila moduct. I was very much tempted to write ercial product. I was very much tempted to write short paper for the June number of the American ournal of Pharmacy, but for fear it will not be proper will content myself with an editorial notice of your scovery t * * * *

iscovery.† Yours very truly, J. M. MAISCH.

*This analysis was made by Frof. Trimble, solely beause of the scientific interest he felt in the matter, nd without my request; which of course gives me dditional pleasure. Though my name was not menoned in the paper, yet the Pipmenthol he refers to as of my manufacture. His article seems to satisactorily demonstrate the superiority of Pipmenthol ver Menthol, not only physically but also as to odor, nd his article closes as follows: "Pipmenthol as now nanufactured may be taken as a standard for the etermination of the properties of this substance, and here is little doubt but that the Japanese Menthol nay be so purified as to resemble it in everything but

†American Journal of Pharmacy, Aug., p. 405-406.

Opinions of Some of the Leading Consumers.

From many letters received from the most noted houses in the world, I have pleasure in making extracts from a few as to how they find actual shipments. The reputation of the houses mentioned is too well known to need comment.

John Wyeth & Bro., Manufacturing Chemists, Philadelphia, May 29, 1884.

MR. ALBERT M. TOOD:

DEAR SIR: Your favor of the 25th inst., together with the 20 lbs. Menthol ordered through Middendorff Brothers, have just been received.

We are much pleased with the appearance and beauty of the crystals of the Menthol made by you. It is certainly handsomer than any of the Japanese we have yet seen.

We are large consumers of Menthol, using about 300 lbs. per month. We were not aware until receipt of your letter that you were manufacturing it. * * * We would be glad to receive quotations from you in lots of, say 500 to 1000 pounds, put up in either large jars or tins. How soon can you supply us, and

in what quantitities?

We have known and used your Oil of Peppermint for years, and it has long been known most favorably by us. We feel sure you will give us your very best terms, as we are, perhaps, the largest consumers of Menthol in this country.

Yours very truly, JOHN WYETH & BRO.

Note.—During the past five months Messrs. Wyeth & Bro. have ordered over fifteen hundred pounds, which speaks better than words can as to the maintenance of the original quality.

OFFICE OF FREDERICK STEARNS & CO., \(\)
MANUFACTURING CHEMISTS.
Detroit, Mich., July 9, 1884.

DEAR SIR: Yours of July 7 received. The sample

of Pipmenthol in Crystals we think is very hand-some, and if it can be made to compete at all in price with the Japanese article, you certainly will have a large sale for it. We are among those putting up Menthol in cones, for which we have a large sale already. We should be glad to know how soon you can furnish your preparation, and not only this, but if you can give us any points regarding its manufacture which will not interfere with your business.

We will write up an article on it for our journal, *The New Idea*, which reaches 15,000 retail druggists every month.

Wishing you success in your enterprise, we remain,
Very respectfully yours,
FREDERICK STEARNS & CO.

Note.—Since this letter Messrs. Stearns & Co. have been large consumers of Pipmenthol, and took so much scientific interest in it as to have the Crystals engraved under the microscope for their journal, adding some of the results of their investigations.

> From F. ALLEN & SON,
> WHOLESALE CONFECTIONERS,
> Canal Road, Mile End. London, Dec. 8, 1878.

MR. A. M. TODD:
DEAR SIR: Your favor to hand of July 30. enclose you Order No. 9932, for ten cases (600 lbs.) Oil Mint, and hope it will be as good as we have had from you before. We have been trying mint from other persons, as we have yours, just one or two cases at a time, and we find yours the best, and so long as you keep to the mark we do not think of changing.

Please say when we may expect this mint, and what you will likely hold in stock, for our future guidance.

We remain, yours respectfully, F. ALLEN & SONS.

Note.—F. Allen & Sons have ever since been generous patrons.

Paris, June 23, 1879.

ALBERT M. TODD, Esq.

Dear Sir: I have a customer for 100 Kilo Oil Peppermint, same quality as that last received, if at same price. Let me know by return mail if you accept this offer or not.

Yours very truly, CHI. CHRISTIANSEN.

From John Buchanon & Bro., Wholesale and Export Confectioners, makers of Marmalade, Jams and Jellies, Orange, Lemon and Citron Peel. Manchester office, 7 Fennel St.

GLASGOW, 18 Aug., 1879.

MR. ALBERT M. TODD:

DEAR SIR: We herewith enclose draft for the amount of your invoice of 9th July.

Please quote for a similar quantity of Oil, and qual-

Please quote for a similar quantity of Oil, and quality equal, as soon as possible. Yours truly,

JOHN BUCHANAN & BRO.

NOTE.—This house have since been regular patrons, ordering over 1000 lbs. per annum.

LEIPZIG, 15 Sept., 1877.

Dear Sir: We acknowledge receipt of your favor of 12th August, with invoice of 360 lbs. Oil of Peppermint, which safely came in our possession, and with pleasure we state that we found the quality of your Oil to our undivided satisfaction. We hope you will continue to furnish the like good merchandise, and at reasonable prices, and we do not doubt to enlarge the sale of this article if well and regularly supported by advantageous offers. We remain, dear sir,

Truly yours, E. SACHSSE & CO.

Bristol, Feb. 28, 1879.

BRISTOL, Feb. 28, 187

MR. ALBERT M. TODD:

DEAR SIR: We are duly in receipt of your letter of the 11th inst., and in reply, beg to say that your Mint so far has given great satisfaction. * * * Yours truly, STANTON & CO.

All of the houses mentioned herein have been, since the writing of these letters, generous patrons; and there are many others whom I would like to mention, with their opinions, both in Europe and in America, if space permitted; and I will simply mention the names of some of the other well known houses who have honored me with their patronage.

Messrs. Burgoyne, Burbridges, Cyriax and Farries; Messrs. W. J. Bush & Co.; Messrs. R. Morrison & Co.; Messrs. Stevenson & Howell;—

all of London.

Messrs. John Gray & Co., Glasgow. Messrs. M. A. Craven & Son, York. Messrs. James Wooley, Son & Co., Manchester.

Messrs. B. Newham & Co., Sheffield. Messrs. Wyleys & Co., Coventry. Messrs. Metzner & Otto, Liepzig.

Mr. G. F. Overbeck, Bremen.

Messrs. E. Prosser & Co., Sydney, Australia.

I also refer with much pleasure to the entire Wholesale Drug Trade of America.

I hope, by January, to be able to keep some Pipmenthol in stock in London; but, so far, have been unable to manufacture as fast as ordered by American consumers.

Specimens can be soon seen at Messrs. Burgoyne, Burbridges, Cyriax & Farries; at Messrs. Allen & Hanbury's: at Fletcher, Fletcher & Stevenson's; at Messrs. Baiss, Brochers & Co's; and

at 17 Bloomsbury Square.

The Crystal White Oil of Peppermint is doubly distilled, with the utmost care, by steam, from the finest plants of Mentha Peperita, (when in bloom), and is then redistilled and rectified by a special process, and special apparatus of my own invention. By my process the action of direct heat is entirely avoided. The oil is placed in a specially constructed receptacle, and by the means of a system of pipes and perforated cylinders moist steam (under a carefully graduated pressure and temperature,) is blown through the oil in minute jets, thus evaporating the most volatile portions, and leaving the bitter oleo-resin separated. By my process, not only is all the bitter natural resin extracted, but also the hydrocarbon, or Terpene, (by fractional distillation,) which is the cause, in other brands of the tendency to become Terebenthinate. The Oil is thus rendered very fragrant,—very white and clear,—and of the highest possible thera-The Oil is shipped in cans peutic value. of 20 to 21 lbs. net per can, and 3 cans per case; also in bottles of 1 kilo, ½ kilo, 2 hs and 1th., each case containing either 10 kilogrammes. or else 20 lbs. The Crystals are packed in 8 oz., 16 oz., 20 oz., and 24 oz. saltmouths, or in 5 lb.

Having been engaged in growing and distilling Mentha Piperita for over 17 years, my experience should be of value. My Crystal White Oil of Peppermint at 60° Fahrenheit is never below 908° Sp. Gr., nor above 916°—a uniformity attained by no other manufacturer.

All my Crystal White products are positively guaranteed absolutely pure and in every respect of

superior quality.

I shall be pleased to send my cable code to foreign wholesale houses requesting it; also to receive correspondence from any firm desiring further information. I ship only to wholesale buyers, but will be pleased to inform others where they can most readily procure supplies.

Further information will appear from time to

time in the Chemist and Druggist.

Trusting I may be of service to you, I remain Sincerely yours,

ALBERT M. TODD.

ne superior excellence of our world-renowned Preparation has been abundantly proved by the fact of reiving no less than Sixteen Prize Medals, Six of which are Gold, besides Numerous Diplomas and tifates, as well as being the Purveyor to the Army and Navy, and, last though not least, the distinguished

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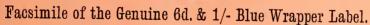


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GOLD





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THE CRYSTAL PALACE. NO HEATING REQUIRED UNLESS PREFERRED. WILL RESIST BOILING CHLORIDE OF LIME

SONO: CRYSTAL PALACE COLD MEDAL MARKING INK.

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We shall be pleased to supply the Trade with Framed Linen Specimen, free on application, to any address, carriage paid.



Blue Wrapper Inks, ls. in \(\frac{1}{2} \) doz. and 6d. in 1 doz. Boxes, or on very attractive Embossed Gold Show Cards of 1 doz. Pedestal Inks, 1s. in \(\frac{1}{4} \) doz. and 6d. in \(\frac{1}{2} \) doz. Boxes.

VIGILANCE. AND CAUTION In ordering from the wholesale house, please state Crystal Palace Bond's (Daughter's) Ink is required. Kindly examine each parcel received, as complaints are daily being made of other inks being substitute!. The reputation of the Ink has led to many infringements of the Trade Marks, but the original rights have been clearly established whenever made the subject of judicial inquiry (see actions tried in the High Courts of Judicature, with costs and damages awarded).

GIVEN AWAY.

Please to order one of the New, elegant Bent Glass Ebonised Show Cases, measuring 19 by 9 on which the following words appear, written in gold: "Agents for the Crystal Palace Bond's (Daughter's) Gold Medal Marking Ink," thus showing the public at a glance where to obtain this worldwide advertised preparation, in consequence of daily complaints by the public of other inks being substituted.



With Crystal Palace Ink, Pens and Linen Stretcher, same price as original Pedestal.

Reg.

The case contains Six dozen each 6d. and 1s., blue wrappers, the greater portion of which is displayed as illustrated, the remainder being neatly packed in drawers at back. Can be obtained of any Wholesale House for the value of the Inks alone.

NEW CHEMICAL IMPROVEMENT. THIS WORLD-RENOWNED PREPARATION CANNOT POSSIBLY DRY UP.

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Esta Tinta no requiere preparacion alguna ántes de usarse. Resiste hasta el cloruro de cal hirviendo. Se surte á la Comision del Almirantazgo, á los Agentes del Gobierno Inglés para las Colonias, á la Reina y la Córte de Holanda, y ha sido premiada con numerosas Medallas de Oro y Plata, y otras recompensas y Certificados, en las varias Exposiciones Internacionales en Lóndres, París, Lyons, Filadelfia y otras partes, así como tambien en las Exposiciones celebradas por muchas Sociedades Científicas é Industriales. Entre estas últimas recompensas pueden mencionarse la primera Medalla de Oro de la Academia de Manufacturas y Comercio de París, acompañada de un informe altamente favorable en la "Gaceta Oficial," así como tambien un premio en la Exposicion de Sydney igual á una Medalla de Plata, y la primera recompensa en la Exposicion de Melbourne.

La gran reputacion que goza esta Tinta ha sido motivo de muchas falsificaciones de la Marca de Fábrica, pero los privilegios originales han sido incontestablemente establecidos en donde quiera que ha habido un caso judicial. (Véanse los pleitos, terminados siempre con costas é indemnizaciones en favor del demandante.)

del demandante.)



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y esencial, debido á las viles imitaciones, que cuando se pida esta preparacion de fama universal, se consigne claramente el título "CRYSTAL PALACE (BOND'S) INK," la preparada por la Hija del finado JOHN BOND, inventor del pedestal, con tinta, plumas y estirador para el tejido.

EL REQUISITO DEL SIGLO, UN LAPIZ PERFECTO DE TINTA PARA MARCAR.

Se hace negro indeleble con la rapidez del rayo, en el acto de escribir.



NO REQUIERE CALOR.

Prueba contra el jabon, la sosa, los polvos de blanquear, ácidos y sustancias análogas, así como tambien la brocha y otros artículos destructivos empleados por algunas lavanderas.

Para la venta al por menor, á 60 céntimos y 1.25 pesetas.

Elegantemente montados sobre cartones de media docena. Si no son aprobados se devolverá gustoso el dinero.

Oficinas y Fábricas:—75, SOUTHGATE ROAD, LONDRES, N.

Meartburn, Gravel, Gout, &c. Endigestion. A CHARIEN 90 im cases A Valuable Remedy

Spasms, Headaches, and Gastric Coughs, produced by this condition in delicate persons, ar almost invariably removed by Murray's Fluid Magnesia. the STOMACH, In ACIDITY OF THE

IRRITATION OF THE STOMACH, especially during Pregnancy, Febrile Complaints, Infantile Disorders or Sea-sickness. Murray's Fluid Magnesia acts beneficially as a pleasing Sedative and Aperient.

HEARTBURN, as well as

by th ACID ERUCTATIONS, and Sourness or Irregular Digestion of Females and Children, are also speedily removed valuable preparation.

As a mild and agreeable APERIENT, Murray's Fluid Magnesia is particularly useful, either taken alone, or, which is still better, mix a little of the Avidulated Syrup, which largly increases the laxative properties of the Fluid Magnesia, and produces with it a brisk an with a little of the palatable effervescence.

GOUT AND GRAVEL. In these affections Murray's Fluid Magnesia is a beneficial agent (especially in cases where Acidity of the Stomach and Constipation are also present) forming a soluble, combination with the Uric Acid existing so largely in the system, and thus facilitatizes movel therefrom, as well as preventing its being deposited in the tissues of the body.

As a Lotion for the Mouth, Murray's Fluid Magnesia has been found to sweeten the breath and clear the teeth from Tartar.

N.B.—Murray's is the Original Preparation of Fluid Magnesia, having been invented by the late Sir James Murray, M.D., first introduced by him to the Medical Profession and the public; this preparation also commends itself by the large size of the bottles,—1/- size containing almost double the quantity usually sold at that price.

The following Certificates from Medical Men and Analysts will prove satisfactory to the Public:-

From DE. GOOLDEN, Physician to St. Thomas's Hospital,

Fluid Magnesia of Sir James Murray, which you did me the favour to sen: Re-carbonated the obliged by much 's Hospital Thomas

which It is a beautiful preparation, brisk and agreeable to the taste, free from any deposit, and far better than any specimen I have seen.

As a laxative for pationts suffering from irritable stomachs, it is most valuable, and I trust its own qualities willinsure it the success wherer deserves.

I am, doar Sir, very faithfully yours, R. H. GOOLDEN, M.D.

I have for some time past extensively prescribed Sir James Murray's Fluid Magnesia, and think very highly of its remedial powers in variate especially in gouty affections, lithic acid deposits, and derangements of assimilation, tending to the development of acid productive system. There are not prescribed the Re-carbonated Solution, which possesses the advantages of being not only in medicinal, but at the same time more palatable.

F. W. MACKENZIE, M.D., M.R.C.P., Senior Physician to the Western General Dispense

From Dr. G. E. JONES.

An elegant Aperient, which recommends itself to the eye by its transparency and to the palate by its refreshing briskness, is the "NI RE-CARBONATED FLUID MAGNESIA" of Sir James Murray, M.D. It is admirably adapted to correct sickness, acidity, or other functio derangements of the digestive organs, and in the disorders of Caldhood it is safe, agreeable, and effective.

GEORGE EMANUEL JONES, M.D., of London College.

Grosvenor Square.

73 Grosvenor Street,

From SIR PHILIP CRAMPTON, Bart., Surgeon-General to the Army in Ireland.

Dear Sir Jawes—There can be no doubt that Magnesia may be administered more safely in the form of a concentrated solution that substance; for this and many other reasons I am of opinion that your Fluid Magnesia is a very valuable addition to our Materia Medica.

PHILIP CRAMPTON.

From PROFESSOR EDMUND DAVY

I have submitted Sir James Murray's Fluid Magnesia to a chemical examination, and find it contains, dissolved in Carbonic Acid, 270 gr. Carbonate Magnesia in the imperial pint of 20 cunces, or 134 grains in each fluid cunce. It contains no Sulphate or Muriate of Magnesia, nor EDMD. DAVY, Professor of Chemistry, Royal Dublin Society. other impurity. 27th April, 1842.

From PROFESSOR (NOW SIR ROBERT) KANE.

Mr Drar Sir James—I have completed the analysis of your Solution of Magnesia, which you placed in my hands. It is perfectly pure, sevidently prepared from the purest materials, being quite free from the presence of any sulphuric or muriatic salts. Its specific gravity I prove to 1025.6; water being 1000, and it contains in each fluid ounce 13 grains of Carbonate of Magnesia.

To Sir James Murraly.

ROBERT MAINE.

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Prepared from materials recommended by several of the most eminent Dentists of the day, at a meeting of the Odontological Society, held in London, February, 1875, when the important subject of Dentifrices was discussed.

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ALSO IN PATENT METALLIC BOX, PRICE 1/- EACH.

TESTIMONIALS.

Dr. Joseph, L.L.D., M.D., Deputy Surgeon General H.M.'s Forces, Cannanore, Madras Presidency. "I and my friends have been using it for some time past, and find it a very pleasant dentifrice."

The British Journal of Dental Science :- "We have used this Dentifrice with so much comfort and satisfaction. that we have no hesitation whatever in recommending it strongly to the notice of our readers."

An eminent Practitioner:-"I use them exclusively for my own mouth, and all my family prefer them to any other dentifrice. My patients also having one used the Tooth Blocks, return for more."

Dr. J. J. Pope, M.R.C.S., Professor of Hygiene, Birkbeck Institute, Lecturer on the Special Staff National Health Society, London, (Author of "Number One, and How to Take Care of Him") South Crescent, Bedford Square, London, W.C.:—"Peculiarly adapted for use in youth, from its conditioning a character." its non-injurious character."

The Rev. Edward Muckleston, M.A., Haseley Rectory, Warwick:—"I have had great experience in all kinds of materials for cleaning my teeth. I must soy, with truth, that I prefer yours to all others."

Thomas Hendrick, Esq., Jamaica, Registrar of the Supreme Court of Judicature :- "I have for some time past used your O. S. Tooth Block, which is the best and most agreeable dentifrice that I have tried. It is very pleasant and efficacious after smoking. It is imported into Jamaica by Messrs. Henry Pinnock & Co."

Fred. Geo. Winter, Esq., St. John's Hill House, London, S.W :- "I feel that I am only tardily performing a duty in writing to acknowledge the benefit and pleasure I have derived from the O.S. Tooth Block. For three years I have used nothing else for my teeth, but previous to that I had tested, for a longer or shorter period, nearly every dentifrice in the market. After a trial, each compound was found wanting in one respect or another. These and surdry other inconveniences contributed to my gratification when introduced to your "Tooth Block" by a mutual friend. For three years I have used and recommended it, and so well satisfied with it on all points am I, that I do not hope to meet with any superseder. No one to whom I have recommended it has ever, to my knowledge, given it up. You are heartily welcome to quote my testimony, for I feel that I am doing a good "turn" to anyone, who from what I have written, may give your speciality a trial, more especially if he be like myself a pretty heavy smoker.

SOLD BY THE FOLLOWING WHOLESALE HOUSES:-

Ash & Sons, Broad Street, London, W. Ayrton & Saunders, Duke Street, Liverpool. Barclay & Sous, Farringdon Street, London, E.C. Baiss Bros. & Co., Jewry Street, London, E.C. Butler & Crispe, Cheapside, London, E.C. Burgoyne, Burbidges, & Co., Coleman Street, London, E.C.

Cottrell & Co., Rodney Street, Liverpool. Dental Manufacturing Co., Limited, Little Windmill Street, London, W., and Manchester.

Duncan, Flockhart, & Co., Edinburgh.

Edwards & Son, Queen Victoria Street, London, E.C. Elliott Bros., Sydney.
Evans, Sons, & Co., Liverpool.
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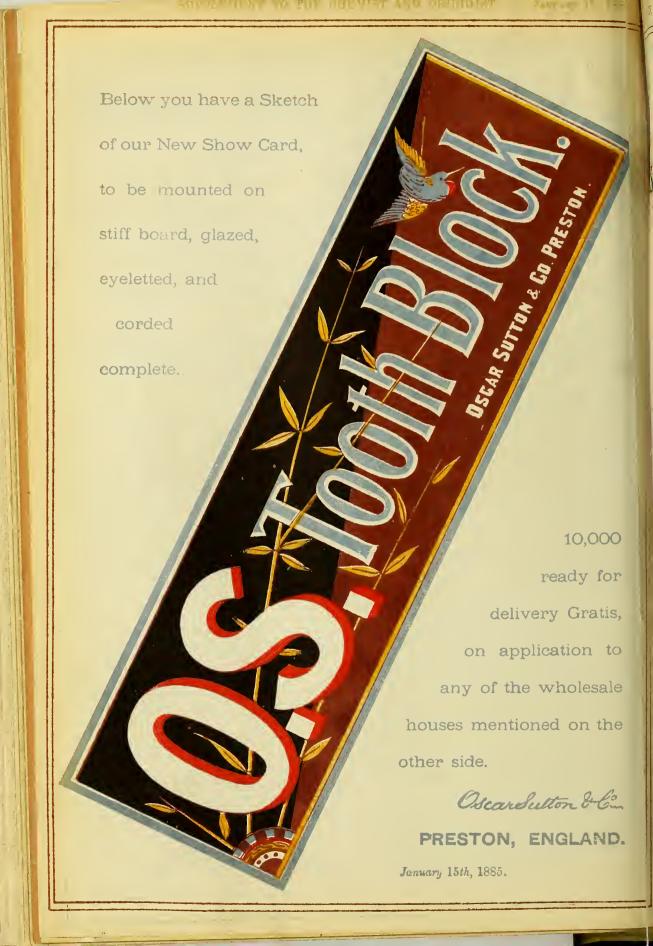
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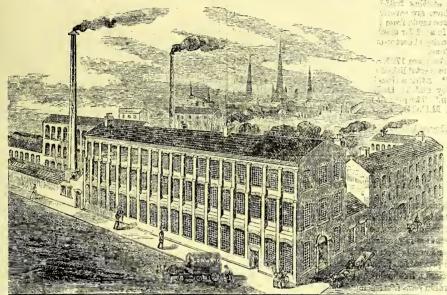
&c., &c.

OSCAR SUTTON & Co., PRESTON, ENGLAND.



From "THE CHEMIST AND DRUGGIST," December 15, 1884.

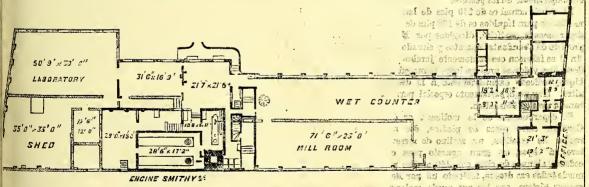
Iessrs. Wyleys & Co.'s New Drug Warehouse.



NTIL a few months ago Messrs. Wyleys & Co., wholcsale druggists, carried on their business in Coventry in an extensive chouse situated in the very centre of that ancient city. Recently have sold the property to the Corporation, and the building is being demolished to make room for municipal improvements. To be presumed that the bargain, whatever it may have been, not an unsatisfactory one for the firm; but this tide in their is did not stop rising at that transaction. Close by the town were able to purchase a very extensive building, which had

country. The entire removal was effected in the month of September, and by working night and day this troublesome business was managed without any cessation in the regular execution of orders.

The building now occupied is 240 feet long and 66 feet broad. The plan annexed shows the general arrangement of the ground floor. The wet counter is 162 feet long, affording convenience for a very large business. The laboratory and analytical department, which are superintended by Mr. H. W. Jones, F.C.S., are provided



n built for and used as an elastic-weaving mill. It is well known to the staple trades of Coventry have for a considerable time ained in a depressed condition, and this particular mill was out work. The probability is, therefore, that, in the matter of perty, at any rate, Messrs. Wyleys were able to follow out cety the well-worn free-trade maxim to sell in the dearest and in the cheapest market. Naturally a great deal of adaptation s necessary, and the alterations were carried out with a thoroughs and efficiency which have rendered this spacious building one the most convenient wholesale drug establishments in the

with abundant apparatus, and are conveniently situated out of the way of thoroughfare or interruption. The manufacture of green and other extracts of syrups, the distillation of waters, and all other pharmaceutical operations are continuously carried on. One still is reserved exclusively for the distillation of spirits of nitre. There is a special room for the manufacture of tinetures with hydraulic presses.

The mill-room is particularly noticeable for its extent, and for the work executed there. It contains five pairs of stones, two seed crushing mills, a mercury-mill, a set of steam pounding mortars,

or "pounces," and a large sifting-apparatus, fitted with numerous sieves, some with 140 meshes to the inch. The firm grind all their own drugs. One pair of stones is kept for cream of tartar, and these are capable of powdering up to a ton per day. In another half a ton of linseed can be crushed daily. A blacksmith's forge, with steam-lathe and all appliances, occupies a portion of this floor near the engine-house. This is an unusual addition to a drug warehouse, but it was a part of the plant on the premises, and Messrs. Wyleys have found that they could fully utilise it for fittings and repairs.

On the next floor are the dry counter (198 fect long), the patent and soap rooms, a girls' room (where articles are put up), a storeroom for special drugs, and a busy room where pearl and gelatine coated pills are manufactured. This is a special feature of Messrs. Wyleys' business. Pfleidcrer's machines are used, all being worked by steam. A 10-1b, mass is worked up in about a quarter of an hour, and within another half-hour can be turned out in full-rounded pills. There are several hundred varieties of pills kept in stock and others are made from private formulae.

stock, and others are made from private formula.

The floor above is used for stock, and on the extensive flat roof is an immense quantity of castor-oil bleaching, amounting sometimes to as much as 20 tons.

This business dates from 1790, about which time it emerged from retail life and became established as a wholesale, under the style of "Stott & Wyley." After a time it pessed into the hands of John and Francis Wyley and T. Dudley Brown, and was known as "Wyleys & Brown." The present firm. Wyleys & Co., is composed of Francis Wyley, M.R.C.S., L.S.A., W. F. Wyley, F.C.S., and George Walker.

Mr. Francis Wyley, a hearty old gentleman, who still takes an

active part in the business, is a Guy's Hospital man; he becar a licentiate of the Society of Apothecaries in 1834, and a membot the Royal College of Surgeons in 1835. He never, however, it ised medically, but joined his brother, the late Mr. John Winth the Coventry business. He is a justice of the peace, is been mayor of the city, and is the managing director of the Unbank. As an active politician he is well known, and at the sent time is taking a lively interest (practically shown by hard contributed 500%) in the restoration of St. Michael's, whis the largest parish church in England, excepting that Great Yarmouth, which exceeds it, it is said, by only 1 square in area.

Mr. W. F. Wyley, son of the late Mr. John Wyley, was educed at Rugby, and, after spending some time at Bloomsbury Squeent on the Continent, and obtained experience in several of leading chemical firms. Whilst in the establishment of De Hu of Hanover, chloral hydrate was first produced on the large se and he narrates how the workmen were frequently overcome by fumes, and had to be carried out of the work-rooms in an insense condition. Mr. Wyley's practical knowledge of the plant of a various large Continental chemical and pharmaceutical houses been carried into effect in the new premises by the adoption of set of the foreign methods.

of the foreign methods.

Mr. George Walker is well known in connection with the tla association. As an active member of the firm he devotes sput attention to the London branch house, and to the foreign tre Locally Mr. Walker is greatly esteemed, and has a high reputan as a public reader; in consequence, he is often called upon to make the ancient city of Coventry.

De "THE CHEMIST AND DRUGGIST," 15 de diciembre de 1884.

HASTA hace algunos meses, Messrs. Wyleys y Co., drogueros al por mayor, hacian su indústria en Coventry en unos grandes almacenes situados en el centro de aquella antigua ciudad. Recientemente han vendido la propicdad á la corporacion municipal que la está demoliendo en la actualidad para ornato 'público. El negocio había sido provechoso para esta casa, pero sin embargo continuan sus transacciones, habiendo comprado cerca de la ciudad un gran cdificio construido para fabricacion de tejidos de goma. Conocido es de todo el mundo que las principales indústrias de Coventry vienen desde hace algun tiempo un tauto paralizadas, y la fábrica de que nos ocupamos estaba parada hacia algun tiempo. Por consiguiente en esta compra Messrs. Wyleys han cumplido el aforismo comercial de vender caro y comprar barato. El edificio necesitaba grandes alteraciones que se han llevado á cabo, convirtiéndolo en uno de los establecimientos de drogas al por mayor mas espaciosos del pais. La traslacion de las existencias se hizo en el mes de setiembre, trabajando noche y dia sin haber detenido un momento el cumplimiento de los pedidos.

El edificio actual es de 240 pies de largo por 66 de ancho. El mostrador para líquidos es de 162 pies de largo. El laboratorio y departamento analítico, dirigidos por Mr. H. Jones, F.C.S., está provisto de abundautes aparatos y situado fuera del bullicio general. En 31 se fabrican constantemente jarabes y otros extractos, aguas destiladas y demas preparaciones farmaceúticas, teniendo un alambique dedicado exclusivamente á la destilacion de espíritu de nitro. Hay un departamento especial para la fabricacion de tinturas á presion hidráulica.

El departamento de la molienda es digno de menciouarse. Contiene cinco pares de picdras, dos molinos para la trituracion de semillas, un molino de mercurio, un juego de morteros á vapor, uu gran aparato para cerner, con numerosos cedazos, algunos de cllos con 140 mallas por pulgada. La casa muele todas sus drogas, teniendo un par de piedras dedicadas al cremor tártaro, con las que puede molerse una tonelada diaria. Hay tambien una fragua con torno de vapor y demas aparatos que pertenecia á la antigua fábrica y que Messrs. Wyleys la aprovechan para reparos y demas.

En otro piso está el mostrador para sólidos, de 198 pics de largo, departamento de medicinas de patente y jabones, departamento de mujeres en donde se empaquetan los artículos; depósito de drogas especiales y departamento en donde se claboran las píldoras, perladas y gelatinosas. Se emplean máquinas "Pfleiderer" movidas á vapor,

haciéndose una masa de 10 lbs. en un cuarto de hora, que convierte en píldoras en otra media hora. Hay algunos cie se de variedades de píldoras en depósito constante, otras se fabric segun receta privada.

Otro piso está destinado á almacenes, y en el extenso tejado po hay siempre una inmensa cantidad de blanques de aceite de rio que asciende algunas veces á 20 toneladas. Las operaciones de a casa datan de 1790, en cuyo tiempo se comenzó el negocio al mayor bajo la razon social de Stott y Wyley. Despues de ala tiempo pasó á manos de John y Francis Wyley y T. Duy Brown, y fué conocida por Wyleys & Brown. La casa acil Wyleys & Co., la componen Francis Wyley, M.R.C.S., L.S.A., W. Wyley, F.C.S., y George Walker.

Mr. Francis Wyley, robusto anciano que todavia toma parten los negocios, procede del Hospital "Guy," se hizo licenciado da Real Socieded de Farmaceúticos en 1834 y miembro del la Colegio de cirujanos en 1835. No practicó la medicina y se un su hermano John Wyley en el negocio de Coventry. Es jueze paz, ha sido alcalde de la ciudad y es director del "Union Ban" Es tambien conocido en la política activa y en la actualidad trala con gran interés por la restauracion de la iglesia de san Mig, á la que ha contribuido con 500l. Dicha iglesia es la mayore Inglaterra, excepto la de Great Yarmouth que la excede solame en un pié cuadrado, segun se dice.

Mr. W. F. Wyley, hijo del finado Mr. John Wyley, se educó a Rugby y despues de pasar algun tiempo en Bloomsbury Squarc, é al continente, en donde adquirió gran experiencia en las princips farmacias, habiendo presenciado en el establecimiento de Haele Hanover los primeros experimentos para la produccion en ga escala del hidrato-cloral, endonde, segun cuenta, los obreros aniclados por el humo eran muchas veces sacados del laboratorio expletamente sin conocimiento. La práctica de Mr. Wyley, adquira en las grandes farmacias del continente, ha producido efectos en s fâbricas, adoptando algunos sistemas extrangeros.

Mr. George Walker es bien conocido en la Asociacion Comerd. Como miembro activo de la casa, dedica su especial atencion (a sucursal de Lóndres y al comercio extrangero. Mr. Walker es amente estimado y ha adquirido gran reputacion en las conferens públicas, siendo generalmente muy pretendido para dar deferencias á beneficio de alguna institucion de la antigua ciudace Coventry.

WYLEYS & CO.

COVENTRY.

WYLEYS, WALKER & CO., 223 UPPER THAMES STREET, LONDON, E.C.

ESTABLISHED 1790.

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AND DRUG GRINDERS.

Manufacturers of

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GELATINE COATED OVAL PILLS.

The only oval gelatine coated pills of English manufacture in the market.

FLUID EXTRACTS.

SUBLIMATED SERUM GAUZE.

EXTRACT HENBANE (English)

ESSENCES FOR AERATED WATERS.

CONCENTRATED WATERS.

CHINOQUININE.

CHEKAN.

We were the first importers of this drug. Our liquid . Extract is the original preparation.

PEARL COATED PILLS.

Special and extensive list on application.

OLEATES.

MEDICATED ABSORBENT WOOL (Various kinds).

EXPRESSED JUICES (English).

POWDERED DRUGS.

Special attention paid to powders of guaranteed purity, which may now be had in sealed 1 lb. tins.

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HYPODERMIC ERGOTIN TUBES.

By their use a fresh solution of Ergotin can be at any time obtained.

FRICTION CAKES (Various).

We were the first to introduce these liniments in the solid form.

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We are prepared to execute orders for Export, giving every attention to packing and the requirements of the Market for which goods are intended. Having direct representatives in Rio Janeiro and Valparaiso, we are in specially good position with reference to these Markets.

SPANISH PRICE LISTS PUBLISHED QUARTERLY.

We shall be happy to forward English and Spanish Price Lists, Book of Order Forms, and Pill List, to any Chemist in the World on receipt of Business Card.

PREPARACIONES ESPECIALE:

DE

WYLEYS Y CIA.

Crema de aceite de hígado de bacalao con hipofosfito de cal.

Cada cucharada contiene dos cucharillas del accite puro de Norwega y dos granos de hipofosfito de cal. Frascos de ½ lba., 90 rs.; 1 lba., 160 rs. la docena.

Aceite de higado de bacalao y fosforo.

La cucharada contiene una tercora parte de aceite de higado de bacalao y $\frac{1}{100}$ grano de fósforo sin oxidar. 10 rs. lba. Emulsiones de las que, debido a la manera de preparales, se ha extraído el repugnante sabor del aceite, y que por lo tanto constituyen un remedio aromático y sobre todo agradable.

Aceite de hígado de bacalao con fosforo, quinina y estricnina.

La dracma fluida tiene $\frac{1}{4}$ gr. de quinina, $\frac{1}{n+1}$ gr. de estricnina, y $\frac{1}{100}$ gr. de fósforo. 25 rs. lba.; 160 rs. la docena.

Tabletas de friccion de Wyleys y Cia. ("Friction Cakes.")

Fuimos los primeros en introducir los linimentos en una forma sólida con el nombre arriba indicado. Serán de suma utilidad en todos los casos en que el frotamiento es ventajoso. La superficie de la tableta ea lisa, y agradable à la piel, y comunica rapidamente una cautidad suficiente de las drogas de que se compone, al mismo tiempo es bastante dura para permitir una friccion activa cuando sea necesario.

- Aconito. Equivalente en fuerza al linimento de aconito de la farmacopeia británica.
- Aconito y Opio,—Una forma de aconito mas suave, combinada con los principios sedativos de opio.
- Atropia (Oleate). Un compuesto útil, de fuerza y actividad constantes.
- Belladama.—Equivalente en fuerza al linimento de belladama de la farmacopeia británica.
- Belladama y Aconito.—Ofrece los linimentos de belladama y aconito en proporciones iguales.
- Belladama, Aconito y Opio.—Representa cumplidamente la belladama y el aconito con la adicion de los constituyentes del opio.
- la belladama y el aconito con la acicion de los constituyentes del opio.

 Compuesto de alcanfor.— Sedativo y invigorizante. Una
 combinacion utilisima.
- Capsicine.—Refriendo à nuestras tabletas de capsicine el British Trade Journal, de 14 de Abril, 1883, dice: "El valor del pimiento como una aplicacion local en lumbago, reumatismo, ciática, mialgia, y muchas otras afecciones penosas, ha sido largo tiempo reconocido. La ("Friction Cake") tableta de friccion es un preparado del pimiento de Guinca mezclada con una sustancia untuosa para formar un palito, con que se puese facilmente frotar la parte afectada. Es un rubifaciente poderoso, que produce un escozor en pocos miuntos, y serà una adicion util à los medios existentes para el tratamiento de casos muy obstinados."
- Morfia (Oleate).—Un sedativo poderoso y de fuerza y actividad constantes,
- Opio.—Sedativo. Especialmente valioso como un remedio tranquilizador, así como en los casos en que se requiere la friccion.
- Sinapismo Comp.—Estimulante y reuniendo completamente todas las condiciones de un cataplasma o sinapismo de mostaza.

PRECIOS: Capsicine, 20 rs. la docena, todos los demas 40 rs. la docena.

Polvos efervescentes de seidlitz de Wyleys y Cia.

Ó sean "SAL DE WYLEYS," tambien son contenidos en un solo frasco. Esto es un aperiente suave y refrescante, debiendo tomarse en aynnas.

Como sus propiedades aperitivas varian segun la disposicion de las personas, cada uno debe estudiar sus efectos para averiguar la cantidad que le convenga; sin embargo para la generalidad de las personas la medida que va adjunta al frasco será buena guia para la cantidad que ha de tomarse. En frascos á 80 rs. la docena.

Citrato de magnesia de Wyleys y Cia.

Nuestra preparacion de magnes'a, intitulada el CITRATO WYLEYS, es demasiado conocida como una bebida salina efervesce para extjir clogios de nuestra parte. Los ingredientes de que se compon todos de la mejor calidad y son contenidos en un frasco provisto cuebara y una medioa correspondiente. Precio en frascos, 75 rs. la dece

Citrato de limon ó sea kali de limon efervescen de Wyleys y Cia.

Esta preparacion, conocida como "LIMONADA REFRESCANTE WYLEYS," consiste del jugo del limon en una forma concentrada y e stituye una bebida agradable y sana durante el verano. Todos ingredientes estan contenidos en el mismo frasco al cual van añadicas e cuebara y nna medida de madera. Precio en frascos, 75 rs. la nocena.

Tubos hipodérmicos de ergotin de Wyleys y Cia

Cada tnbo coutiene 5 granos del ergotin de Bonjean, prepara especialmente para las inyecciones hipodérmicas, y está provisto de indicador de papel graduado hasta mínimos. Puede obtenerse nna soluc fresca con añadir primero un poco de agua para disolver el ergotin, y las snficiente para la cantidad requerida. El uso de estos tubos es la man mas econômica y al mismo tiempo de mas confianza para el empleo de cadroga, y la solucion que resulta siendo de glicerina, etc., no causará ningu irritacion local. Se surte en cajas con 1 docena de tubos. Precio, 7½ la caja.

Tableta salicílico timol de Wyleys y Cia.

"Esta es una tableta ó palito compuesto de timol y ácido salicílico, principal objeto es para uso de los obstétricos, pero tambien se hallará suma utilidad en la sala post-mortem y para otros usos. Tiene un o agradable y no se pone rancio con facilidad."—British Medical Journal, de Abril, 1883. Precio, 40 rs. la docena.

Conos de menta.

Una forma muy conveniente para la aplicacion local de esta droga los casos de reumatismo, neuralgia, etc., y que consiste de menta pura el mezcla de otra sustancia alguna. Expedimos los tres siguientes tamañ/No. 1, peso medio, 170 granos, precio. 20 rs. No. 2, peso medio, 135 gran precio, 17½ rs. por docena. No. 3, peso medio, 100 granos, precio, 15 rs. docena.

Cascara sagrada (Rhamnus Purshiana).

Remedio reconocido para la constipacion, usado muchos años América y ya hacicudose conocer en Iuglaterra. En dosis limitadas sir de aperiente suave, sin producir retortijones, pero en los casos de constipcion babituales debe tomarse diariamente por una temporada, pero siem en pequeñas dosis. Ext. Cascaræ Sagradæ Liq. (6 Wyleys), cuya dosis es: Como aperiente ocasional, de 1 à 2 dracms ó an los casos permanentes, 30 minimos tres veces al dia. Precio, 50 la lba.

Jar. hipofosf. com. (de Wyleys).

Preparamos este jarabe de las fuerzas siguientes. Cada dracma flui contiene:--

Contents:—

Hipofosfato de hierro ... 1 gr. Hipofosfato de manganes $\frac{1}{4}$ gr. $\frac{1}{2}$ gr. $\frac{$

Mist. bismuthi comp. (de Wyleys).

Esta preparacion la expedimos de la fuerza siguiente. Cada 3 dract fluida es equivalente à :—Tr. Nux Vom. m. 8; Acid. Hidrocian. F.B. m. Morph. Mur. gr. 12; Liq. Bismutbi, m. 60; amalgamado con cloroforma aromàtices y dotada de color como Tr. Card. Comp. Dosis: 15 à mintros.

PRIZE MEDAL



PARIS, 1867.

ESTABLISHED



1741.



PARIS, 1878.

THREE PRIZE MEDALS, CALCUTTA EXHIBITION, 1884.

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COLEMAN ST.,

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EXTRACT OF MALT.—Carefully prepared in vacuo from the ery hest malted grain, this clegant preparation retains all the delicate projecties of the malt, with the phosphates, alhumenoids, and diastase undanged. It is of a light colour, and perfectly free from glucose or added mar. It will keep well in any climate, and retain its valuable therapeutic properties unimpaired for any length of time.

PEPTOLEINE (Registered).—This elegant preparation is an Emulsion containing 50 per cent. of the purest Cod Liver Oil, combined with other nutritions hodies upon a new principle. The flavour is so delicate as to be entrely free from offensiveness, and it is easily assimilated by those whose digestive powers are unusually weak, It is particularly suitable for ladies and children, and is guaranteed to keep well in any climate.

OIL OF LEMON.—This article has been one of our specialities for years, and one in which we have considerable experience, and extensive dealings. We have, therefore, no hesitation in recommending our extra super quality as the finest that can be obtained.

EASTON'S SYRUP.—This valuable syrup of the phosphate of iron, quinine, and strychnine, which of late years has become such a great

favourite with the medical profession as a nerve tonic, has always presented to the pharmacist who has tried to manufacture it from the well known formula, the difficulty of producing a presentable and staple article without curtailing any of the active principles. We have, hv a process of our own, overcome these obstacles, and offer an excellent syrup, warranted to contain the exact proportions of the different ingredients; it will keep any length of time, and not deposit or become cloudy.

COCAINE MURIATE. - This alkaloid has recently been brought COCATNE MURIATE.—Insarkation has recently been broadent prominently before the medical profession on account of the very important results that have attended its employment in the production of local anæsthesia for the purpose of opthalmic operations, &c If a rew drops of a 2 per cent. solution of the salt be applied to the eye, anæsthesia of the cornea and conjunctiva is produced within fifteen minutes. This valuable discovery has been tested with the greatest success in Germany and the United States.

ERGOTINE -We devote the greatest care to the manufacture of this preparation, which is made in strict conformity to the original formula of Boniean, and can with confidence recommend it.

Price Lists, Samples, and Special Quotations on application.

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Messrs. Parke, Davis & Co.'s Fluid and Solid Extracts, Concentrations, and other Pharmaceutical Preparations. Salicylic Acid and all Salicylic Salts (Kolbe's Patent). Vanilline Crystals and Vanilla Sugar (De Laire's Patent), Coumarine, Heliotropine, &c.

Antipyrin and Kairin, the new Febrifuges.

Kahlbaum's Pure Alcoholic Compounds, for original research. &c.

Chanteaud's Dosimetric Medicines (Dr. Burggraeve's system) .- Price List upon application.

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Chanteaud's Seidlitz, Retail 2/6; per doz. 24/, less 25 % | Malto Pepsyn (Hazen Morse's), Retail 2/9; per doz. 24/6

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The demand for these Lozenges, especially in Canada, increases each year, the being found effective and safe for children as well as adults.

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SPECIAL GOLD MEDAL for Drugs, Chemicals, and Photographic Good, CHRISTCHURCH EXHIBITION, NEW ZEALAND.

For the Cure of Coughs, Colds, Shortness of Breath, Asthma, Bronchitis, and all Pulmonary Complaints.

For the Cure of Coughs, Colds, Shortness of Breath, Asthma, Bronchitis, and all Pulmonary Complaints.

These Pills have the wonderful power of immediately relieving any kind of Cough, by promoting free expectoration, removing the accumulation Phlegm, which causes a sense of Choking and Difficulty of Breathing, which in girlly deprives the patient of rest.

In Asthma and Coughs of long standing, these Pills are invaluable. If they do not effect a cure, they afford such relief to the sufferers as to independent to the numerous Testimonials received, the Proprietor has selected the numerous Testimonials received, the Proprietor has selected the following:

Elizabeth Lodge, Gurney Road, Leytonstone Road, January, 1876.

DEAR SIR.—I feel great pleasure in acknowledging the wonderful properties of your BALSAMIC COUGH PILLS. My wife has been troubled with a masty hard dry Cough since a child. She has upon many occasions tried various Cough Mixtures, Syrups &c., sometimes with a slight relief, but with no satisfactory result. In the month of November last the Cough really became alarming. She was advised by a friend of hers to try your BALSAMIC COUGH PILLS. Issuer you they entirely cured her. I, of course, always keep a box in the house, in case of coughs or coids, but am happy to say they are now never wanted. I think no one has a greater aversion to advertised medicine than myself; but affer the extraordinary quick relief she received after taking only nine of your Pills, it would be uncharitable on my part not to acknowledge the good they have done.

Believe me, Dear Sir, faithfully yours,

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Prepared and Sold in Boxes, price 71d. and 1/12, by J. A. CLARK, Chemist. 48 The Broadway, London Fields, E. WHOLESALE BY PATENT MEDICINE VENDORS.

We have given special attention to the manufacture of this "Composition Essence," which is rapidly obtaining considera; popularity in the North of England, being much preferred to COMPOSITION POWDER, not only as a family medicine, but; a pure stimulant free from alcohol.

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BY ROYAL LETTERS PATENT.

Dated and Sealed April 13th, 1854,



JAN. 15, 1883

Surgeons and Chemists supplied with an excellent Aperient Pill (the formula for which will) forwarded), covered with a thin non-metallic film, rendering each Pill perfectly tasteless, at 1s. a grid

Any formulæ dispensed and covered, and samples, with list of pills, from 500 different forms, whi

are kept in stock, will be forwarded free on application.

They were introduced to the medical profession by the present proprietors a quarter of a century a and many thousands of unsolicited testimonials have been received from the highest medical authorit, and are now used, and have been used for many years past, by the largest and best conducted hospi's and dispensaries. Of course, a success like this has led to many imitations, and highly-varnished parade to resemble ours, have been introduced by some unscrupulous people. Many of these pills ps through the stomach unaltered, and a useful invention is thus likely to be brought into disrepute.

The most impudent assertions are made by some of these people, who combine, in one incongruous who,

the trades of druggists' sundrymen, retail druggists, soap-makers, and horse and cattle medicine vendor. We make and sell nothing but pills, and have testimonials from regular customers, residing in Chi, Australia, and every part of the civilised world, as well as from friends in almost every town and villagen the kingdom; and our trade, which is constantly increasing, is perhaps four or five times as large as l the rest of our copyists' put together.

The following are some of our Prices FOR CHEMISTS ONLY:—

We strongly recommend our Aperient Pills as a good general saleable Pill. These, with the Pharmacopœia Pills quel below, are sent out to every part of the United Kingdom in half-pound parcels, package, postage, and carriage free the same day as the order is received; and, to avoid booking and other expenses, 1d. in the Shilling will be allowed Stamps or P.O.O. are remitted with order.

Our Pills can also be obtained from any Wholesale Druggist. In ordering, please specify "Cox's Tasteless Pills!

QUOTATIONS FOR OTHER PILLS ON APPLICATION.

No. in Catalogue.	Pil. Aperiens et Cathartic.	Prices per Pound in Four or Five Grain Pills.		No. in Catalogue.	Pills of the British Pharmacopæia.	Prices per Pound Four or Five Gra Pills.	
		Coated.	Uncoated.			Coated.	Uncosk
1 & 2 3 & 4 193 332	Pil. Aper. (Cox) c. Cal, ,, ,, (Cox) sine Cal ,, Cathartic Fort. (Cox) ,, Cochia	6/ 6/ 6/ 5/	5 5 5 4	122 66 24 30 62 71 92 77	Pil. Asafœtidæ Co. " Cambog. Co. " Coloc. Co. " et Hyos. " Ferri Carb. " Hydrarg. " Subchlor. Co. " Ipecac. c. Scillæ	6/6 6/ 16/ 13/ 5/ 5/ 6/6	5/6, 5/7 15/ 12/ 4/ 4/ 5/6 6/
6 8 9 10 7	Pil. Aloes. Barb	6/ 5/ 5/ 12/ 6/6	5/ 4/ 4/ 11/ 5/6	99 104 119 321 115	" Plumbi c. Opio " Rhei Co. " Saponis Co. " Scammon. Co. " Scillæ Co.	12/ 7/ 12/ 22/ 5/	11/ 6/ 11/ 21/ 4/

The Registrar of Trade Marks (after giving the usual public notice, prescribed by Parliament, to ally of opposition) has granted us the above "Trade Mark," thus officially recognising us as the "Original Control of the Control of t Makers of Tasteless Pills," and no Pills will be sent out without this Mark on all bottles or packages.



ARTHUR H. COX &

TASTELESS PILL MANUFACTURERS,

MARTIN'S PLACE. BRIGHT

LDORAS INSABORAS DE GO



CON REAL PRIVILEGIO.

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Se surte á médicos y farmaceúticos con excelentes Píldoras aperientes (cuya fórmula se remitirá), cubiertas on una delgada capa no-metálica que las hace perfectamente insaboras, á 5 rs. la gruesa, francas de porte.

Se elaboran y cubren píldoras de cualquiera fórmula y se enviarán muestras con listas de píldoras de 500

ormas distintas que hay siempre en existencia á cualquiera que la solicite.

Estas píldoras fueron dadas á la profesion médica por los actuales propietarios, que han recibido miles de estimonios espontáneos de las mas altas autoridades médicas, y se usan en la actualidad en los mejores hospitales 7 casas de socorro. Semejante éxito ha sido causa de muchas imitaciones, habiéndose introducido, por gentes poco escrupulosas, píldoras barnizadas parecidas á las nuestras. Muchas de estas píldoras no hacen efecto, pero son ausa de que una invencion de utilidad reconocida caiga en menosprecio.

Los falsificadores hacen de estas píldoras los elogios mas impudentes, y suelen por lo general combinar el

regocio de drogueros, fabricantes de jabon y vendedores de medicinas veterinarias.

Nosotros no fabricamos mas que píldoras y tenemos testimonios de parroquianos constantes, residentes en China y Australia y en todas partes del mundo civilizado, así como tambien de amigos en todas las ciudades y rillas de Inglaterra. Nuestro comercio, que aumenta constantemente, es cuatro ó cinco veces mayor que el de odos nuestros plagiarios juntos.

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Nuestras pildoras pueden obtenerse de cualquier droguero al por mayor. Al hacer pedidos especificar "Cox's Tasteless Pills"

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No, en catálogo	Pil. Aperiens et Cathartic	Precies por lba. en pildores de 4 ó 5 gramos		No. en	Pildoras de la Farmacopeia Británica	Precios por lba. en píldo as de 4 ó 5 gramos	
		Cubiertas.	Sin cubrir			Cubiertas	Sin cubrir
1 y 2	Pil. Aper. (Cox) c. Cal	30 rs.	25 rs.	122	Pil. Asafœtidæ Co	32½ rs.	$27\frac{1}{2} \text{ rs.}$
3 y 4	,, ,, (Cox) sine Cal	30 ,,	25 ,,	66	" Cambog. Co	30 ,,	25 ,,
193	" Cathartic Fort. (Cox)	30 ,,	25 .,	24	" Coloc. Co	80 ,,	75 ,,
332	" Cochia	25.,,	20 ,,	30	,, ,, et Hyos	65 ,,	60 ,,
ř Y		1		62	,, Ferri Carb	25 ,,	20 ,,
1		k.		71	" Hydrarg	25 .,	20 ,,
1	PÍLDORAS DE LA FARMACOPRIA			92	Subehlor, Co	$32\frac{1}{2}$,,	271 ,,
	BRITÁNICA.			77	" Jrecae, e. Scille	35 .,	30 ,,
6	Pil. Aloes, Barb.	30 .,	25 ,,	99	" Plumbi e. Opio	60 ,,	55 ,,
8	", ", et Asafœtidæ	25	20 ,,	104	" Rhei Co.	35 ,,	30 ,,
9	,, , et Ferri	25 .,	20 ,,	119	,, Saponis Co	60 .,	55 ,,
10	", ", et Myrrh.	60 .,	55	321	" Scammon, Co.	110 ,,	105 .,
7	,, Soc		2"1,,	115	Scillae Co.	25 ,,	20
	,, i, 500	343,,	4 2,,	110	,, come co	20 ,,	

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THOMAS BEECHAM,

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Pildoras en eajitas á 3 rs., $5\frac{1}{2}$ rs., 14 rs., $22\frac{1}{2}$ rs. y 55 rs. Pólvos, $5\frac{1}{2}$ rs. Unquento, $6\frac{1}{2}$ rs. y 14 rs.

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THE FIRST TESTIMONIAL.—From Mr. ROBINSON, Librarian Atheneum, Wolverhampton.—I suffered for more than a week from very acute pains between my shoulders. I was recommended to get a box of Mr. Lowe's Antibilious Fills; I did so, and after taking four of the pills; I round the pain entirely removed. They are exceedingly gentle in their operation, and free from producing those griping pains which many are apt to do. No family ought to be without such an invaluable medicine.

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MANUFACTURED ONLY AT

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Wholesale Terms see List of " Proprietary Articles" in most Price Currents.

INDEX TO ADVERTISEMENTS, See pages 39-42.

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Para la Salud, el Apetito y la Digestion, tomad

PROPIETARIO,
ROBERT HENRY LOWE,
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Las venden todos los Boticariot Tratantes en Medicinas Privilegiad en cajas á 1/1½ y 2/9 cada una.

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Para la Cabez

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W. F. SMITH'S TASTELESS DANDELION ANTIBILIOUS PILL

Price, 1s. 1½d. and 2s. 9d. per Box.

Registered.] TARAX. AND PODOPH. [Registered.]

A NON-MERCURIAL LIVER MEDICINE, specially used to the habitually constipated, and safe for all ages.

Worthy of trade notice. Reliable, and rapidly increasing:

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To be had of the usual Houses at Home and Abro-

HILL INA - TINDAK'S NEW RU

As now used by Messrs. Holloway, Cockle, Cox, and all the principal Pill Makers in England, Australia, America, and France. PIPING PRESS, FIE. C.

Rotary Machine, Fig. A.—This invention conrrangement

40 lbs. per hour, according to the of Machinery, whereby any description of Pill at the rate of from 15 lbs. to sists in a novel and improved Mass can be converted into Pills, ize of the Machine used.

BOTARY PILL MACHINES.

" 2...£15 15s. Fig. A.- No. 1 .. £12 128. 3...£20

Machine, capable of making Fig. B.-A small useful 10 lbs. of Pills per hour, particularly adapted for persons making small nantities, at £7 15s.

Press suitable for same, £2 158.

Any of the above can be made to cut two or three different size Pills, at an additional cost for extra Rollers and Plates.

for Piping, by means of which a than by the old method of Fig. C. is the improved Press great quantity of Mass can be Piped in a few minutes truer rolling.

PIPING PRESSES.

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... £3

Fig. C .- No. 2 ... £5 103. ,, 3...£8

PLAISTER SPREADING Machines, from £3 to £15 IRON EDGE RUNNERS, for Kneading large quantities of Mass, or Grinding Drugs, £12 12s. J. W. Pindar's Improved Double Action TINCTURE PRESSES, to hold I Gallon, price £3 10s. £1 10s. extra for every additional Gallon.

toan those by hand machines, and with much less waste. I can, therefore fore, confidently recommend it as a very excelent one, a great saring of labour, and consequently expense.—I remain, yours faithfully, wasterness, THOMAS HOLLOWAY. Mr. J. W. PIYDAR.
224 Strand, 13th March 1869.
Sir,—I larve much pleasure in stating that the Plil Machine which you made for me answers remarkably well, as the Plils are far Peter made and for me answers remarkably well, as the Plils are far Peter made.

338 Oxford Street, opposite Great Portland Street, Mr. J. W. Pindan. Street, Ith, 1871. Str.—The Rotary Pill Machine and Press which we had from you (for a special order) answered very satisfactorily.—We are, sir, Jours respectfully.

3 Crane Court, Fleet Street, Feb. 14th, 1871.

Dear Sir,—We have now used your Rotary Fill Machine about six years, and find it answers better than any we had previously used, and makes the Pills of a very regular size.—Yours kruly, T. WHELPTON. To Mr. J. W. PINDAR.

Mr. J. W. Pindar.

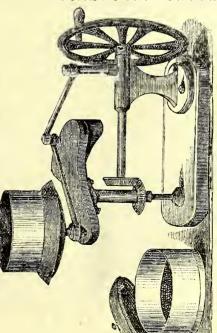
Mr. J. W. Pindar.

Road, London, Nov. 304, 1880.
Dear Sir., Twu letter of inquiry came dily to band. As I always told you, the Pill Machine in operation at my London warehouse has given entire satisfaction. So have those we are using in this country. We can make smooth, round Pills of uniform size at a very small expense. I can safely say that your Pill Machine is all that you claim it to be—a perfect Machine.—Yours truly.

A. J. WHITE.

Testimonials from all parts of the world may be seen on application to

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0 Sifter for same £2 The smallest machines can be worked by Steam Power, at a small additional cost.

PILL COATER, J. W. PINDAR, Patentee, Invented and made by PATENT "ECCENTRIC"

mechanism this machine is constructed in cwing to its "Eccentric" motion, the horoughly separated from each other spherical form whilst being thrown By an entirely new arrangement of a manner which superscdes all others, as, Silver, Gold, or Sugar, &c., &c.-are during the process, and retain their original round the receptacle with remarkable Pills which may be coated with Pearl.

These machines are equally adapted for couting large or small quantities; thus, a machine constructed for and suitable for equal efficacy, and in the most satisfactory coating 20 lbs. will coat 1 lb. only with Each machine is supplied with a Drug manner.

" Eccentric" motion as above mentioned. This addition will be found of great advantage in the Laboratory, teing both efficient and compact.

to the same

Receptacle, is subject

or Powder Sifrer, to be attached if required, and which, fitting to top of Pill

velocity.

No. 4. -- for 20 lbs. on Iron Standards, for Steam, Gas, or other power, ... 3 15 5 15 -for 5 lbs. ... 3.—for 10 lbs. ...

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£15 158 -Sifter for same, £2 58.

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The high character of this old Medicine as a sure remedy for PULMONARY and BRONCHIAL DISORDES, is repeatedly confirmed by the gratifying letters Mr. Powell receives from those who have experienced its great worth

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in all our Advertisements from this date, the attention of the Public will be called to these alterations, and they will be requested to purchase such Bottles as have the Name Engraved on the Government Stamps, and the Name in Water Mark on the Labels.

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INVALUABLE and WELL-KNOWN PREPARATION

a ow heen hefore the public for nearly 70 years, and has obtained a world-wide reputation for the CURE (without the use of Lancet or Lees, as has been proved in Thousands of Cases) of KNOTTY, INFLAMED, and ULCERATED BREASTS, and is the ONLY LADY that can he relied on for relief in those distressing complaints to which the Female Breast is subject after confinement.

"HE VIRTUE OF THIS SALVE is not confined to the Female Breast alone, but it is equally efficacious in CURING all those co laints where inflammatory action is present, and to which the body is ordinarily or accidentally subject, such as ABACESSES, THOURS. ULCERATIONS. BAD LEGS, BED SORES. BURNS. SCALDS. BRUISES AND CRUSHES, FITERED FINGER, &c., &c., and numerous persons have testimed to the GREAT RELIEF they have obtained from its use use used to be used to b

OTE.—CHEMISTS, PATENT MEDICINE VENDORS, &c., who do not keep this article in stock are requested to give it a trill twill be found to be the FINEST SALVE that can be stocked, and once known recommends itself. For the Breast it is not equalled by an intension of the present, as enumerated above, it is equally be and efficacious. The best guarantee that can be given of its intrinsic value is the fact that it has sustained its reputation above all similar rations for nearly 70 years.

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Strongly Recommended in Asthma, Bronchitis, Consumption, Atrophy, Indigestion, and in Stomach Coughs.
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The introduction of this Preparation to the notice of the Profession for every variety of bleeding arose from the desire expressed by several eminent Physicians and many patients to obtain an efficient Styptic at a moderate price—Ruspini's celebrated Styptic being so costly.

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ARE THE BEST AND CREAPEST.

Retail 8/ & 2/ 8/ Peruvian Mixture Capsules
Matico Oil and Copaiba Capsules.
Santal Oil Capsules (36 in each box)
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To be obtained from most Chemists in Town and Country. If any difficulty, the Proprietor, W. LOWE, Chemist, 21 ROSAMOND STREET WEST, and 189 MOSS LANE BAST, MANCHESTER, will send, post free for 14 stamps, to any address in the United Kingdom.

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R. HAMPSON prepares the Pills of the Pharmacopœia, and a great variety of Pills from convenient formulæ; also Pills from private formulæ. The Pills are made of the best ingredients, and being QUICKLY and perfectly diffusible, invariably give satisfaction. A Price Current, with formulæ and sample, post free. Supplied direct or through the Wholesals Houses. Special quotations for large quantities.

ST. JOHN STREET ROAD,

HEATHFIELD'S Liquor Opii Sedat Sedativus.

Guaranteed precisely as made in the laboratory, and under the superintendence of the late Richard Battley.

Can be procured from the principal Patent Medicine Dealers and Wholesale Druggists, or at

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The fatal effects frequently following the of Narcotics in Patent Medicines suggeste to the Proprietor of

STEDMAN'S EETHING POWDER



the advisability of having his Powders teste by Dr. Hassall, the result of whose analysis is cered below, hence vendors need be under no appreheion of the pain, trouble, and censure connected it most inquests, the occasional result of fatal dos or Patent Medicines.

STEDMAN'S TEETHING

THE ANALYTICAL INSTITUTION,

54 HOLBORN VIADUCT, E.C. London, 29th Nov., 177

REPORT ON THE TEETHING POWDER PREPAR BY MR. JAS. STEDMAN, HOXTON.

I hereby certify that I have purchased a sample STEDMAN'S Teething Powder, and have, at the request the Proprietor, subjected it to Analysis for Morpl of Opium in any form.

I am enabled to state that I found the sam in question to be absolutely free from Morphia, or any her Alkaloid or constituent of Opium.

Thus Stedman's Teething Powder is favourable tinguished from similar preparations.

ARTHUR H. HASSALL, N.

Thus Vendors need not be under any apprehension interference either by Police or Coroner, as the FRE ON FROM NARCOTIC removes Stedman's Teething Polets from the "Scheduled Poisons" List, and prevents the sibility of inquests on account of the administration of Powders.

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are best distinguished by their proper brand, a Gum ace (as above), which specify in ordering.

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Eight 11s. Boxes, each containing 216 Powders, for fact

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Full Size, and Prepared throughout with How'd's Materials.

Loose, 5s. 6d. per gross; in 1 doz. Coloured [xes Wrappers, &c., 6s. per doz. net.

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Dr. J. COLLIS

AND ONLY GENUINE. ORIGINAL THE

IMPORTANT CAUTIONS

lom Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD. and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as details untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.

The VICE-CHANCELLOR also stated, that Chlorodyne was a fanciful name, and had application been made sooner, the

(at would have given Dr. Browne protection.

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated that application been made at a proper time and place, the Court would have found means to restrain the Defendant from misre-tenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the Times, November 14th, 15, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never vi any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant plishes the said testimonial as referring to his medicine

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne pered to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published

the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the tentor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; entheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now imment on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the vernment Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORTGINAL AND

IMPORTANT FURTHER NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—



ONLY GENIUNE

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Apothecaries' Hall,	London
Allen, Hanbury & Co.,	,,
Baiss Brothers,	!'
Banks & Richards,	Birmingham
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Cox & Gould,	"
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	- ?'c
Dobbin, W., & Co.,	Belfast
Drew, Barron & Co.,	London
Drew, B., & Alexander,	,,
Dunn & Company,	,,
Edwards, W.,	11
Evans, Gadd & Co.,	Exeter
Evans, Lescher & Webb,	London
Ferris & Co.,	Bristol
Foulger S & Son	London

Frazer & Green.	Glasgow
Gale & Co.,	London
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Gratton & Co	Belfast
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Grindley & Son.	Chester
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Hunt & Co.,	Exeter
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	erhampton
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Meggeson & Co	
Mackay, John, & Co.,	Edinburgh

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Newbery & Sons.	London
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Raimes & Co.	Liverpool
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After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can ascientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. he value of the remedy alone creates the great demand.

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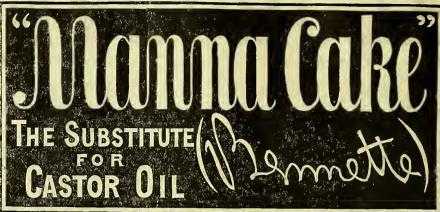
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The mildest and most agreeable aperient known. A first-class Family Medicine for every houseld. Highly approved of by adults; children take it readily and do not suspect its properties. A most suitle aperient for women at all times, and during the whole course of pregnancy. Does not gripe, and lets no bad effect as Castor Oil does. A digestive tablet and sweet to the taste.

Dr. McCANN, Orchard-Hey. Liverpool, sent the following letter:—December 22, 1880.—"The aperient am of the 'Manna Cake' is decidedly good. Mildly energetic, free from griping, and to be depended on when a mild but cein aperient is needed. It is also an effectual WORM CAKE. Being pleasant to the taste (it is mainly sugar), its easy admin as tion very strongly recommends its use, especially in fever cases, where all excitement should be avoided.

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Terms, 12s. per gross, less discount for cash against shipping documents. A liberal supply of pried matter is included in this, the consignee issuing such as he thinks best. On orders of 20 gross at upwards at a time printed matter is supplied in any language. On orders over 100 gross arrangem to will be made for advertising in any country should advertisements not be running.

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"Please forward me another 4 gross. Its pleasant taste and easy operation constitute it a favourite medicine in my own, as in other families,"

A. T. BORTHWICK, Chemist, Selkirk.

"A Physician in the West of England says he gave Calomel and Jalap in repeated doses without effect, but a MANNA CAKE acted almost immediately.

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"It answers the purpose admirably, and gives great satisfaction. It (or you) may justly be called 'The Children's Friend?"

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"It is one of our best preparations,"
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"We find that the Manna Cake sells well, and, so far as we can asce in gives great satisfaction. It is taking a good place among the establed aperient medicines, and is much liked by children, as well as by adult DAVIDSON & LESLIE, Chemists, Beli. "It is with great pleasure I certify to the efficiency of your Manna be the time that it is tempting in appearance and pleasant to taste, and has given by satisfaction; its merits are indisputable; it has wrought wonders in neighbourhood."

LIGHN SELINNER Chemists, Newton, South 188

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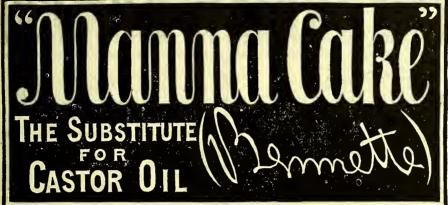
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Al por menor, 3 cértimos cada uno ó \$4:50 la gruesa.

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aperitivo mas suave y mas agradable que se conoce. Medicina familiar de primera clase para todas las casas. Altamente aprobada para do s. Los niños la toman voluntariamente sin sospechar sus propiedades. Es el aperitivo mas à propisito para las señoras en todos tiempos y dute todo el tiempo del embarazo. No produce retortijones ni malos efectos como el aceite de ricino. Es una pastilla digestiva y dulce al paladar.

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Se expide el PASTEL MANA en latas hermosamente decoradas, muy apropósito para el mostrador, y con tarjetones de muestra.

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The Original Preparation, as approved by the Medical Profession on account of its known composition and uniform strength.

Retail at 131d., 2s. 9d., 4s. 6d., and 11s.

beg to inform our numerous customers, and the Trade generally, that we are WITHDRAWING THE 4-OZ. ND 10-OZ. DISPENSING sizes, and, instead, are putting up AN 11s. RETAIL SIZE. The wholesale price the 4s. 6d. and 11s. will be at the same rate per oz. as the old 4-oz. and 10-oz. We shall still continue the undermentioned as usual

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As originally introduced by A. P. Towle, and free from stamp duty for dispensing. 4 ozs., 4s.; ½ lb., 5s. 6d.; 1 lb., 10s.

Also in quantities of 6 lbs. and upwards at special quotations.

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It 1, 2, and 4 lb. bottles, at 3s, per lb., and 6d. and 1s boxes. Foiled, lined, and neatly got up for the counter, 4s. 6d. and 9s. per doz. Quantities of 7 lbs. of Lozenges and upwards stamped with chemist's own name free of charge.

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THE Cure for

Neuralgia Sciatica Nervous Headache Cramps Burns and Scalds

Pains generally Rheumatism Lumbago Gout

Stiffness from vio- Paralysis lent exercise Swellings

Stiff Neck Sore Throat Asthma Bronchitis Coughs Mumps

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N.B.—"THILUM" does not contain mercury, opium, aconite, or any deleterious ingredient.

The following TESTIMONIALS are taken from hundreds that have been received from various parts of the world:-

Henry's "Thilum" has been used in my own family, and its use recommended by me to others. As an emollieut, anodyne, and detergent application, it is one of surpassing virtue. In rheumatic affections, its efficacy, when well rubbed in, cannot be questioned, while its fragrance effectually meets one of the greatest objections to unguents in general. Barmore, Bridge of Allan, J. VANSOMEREN, M.D., 23rd June, 1881.

Bronchitis, Cramps, &c., during Pregnancy, Rheumatism, &c.—Your "Thilum" cured my baby (three months old) of severe bronchitis. Last Friday week he was so ill that the doctor told me his case was hopeless. On the Sunday night following I applied "Thilum," and the next morning he was much better, and another rubbing with the ointment effected a perfect cure. For the b-ment of wives and mathers. I wish to say to all that I have also proved "Thilum" to be invaluable for cramps of the very worst kind, and also for other aches and paius from which I suffered much both before and after my recent confinement. I cannot express the relief and comfort the ointment always afforded me, and only wish more women knew of its special suitableness for them, as I am sure they would use it if they did. I have also used "Thilum" for heumatic pains in the shoulders and different parts of the body, and, having proved its excellent virtues, should now be sorry to be without having it near at hand.

Strathmore Road, Croydon, December 12, 1884.

Strathmore Road, Croydon, December 12, 1884.

Chilblains.—I should like you to know the good effect your "Thilum" had on my chilblains. I had about twenty on my feet, when I was advised to try your ointment, and after using one little box of it the chilblains were quite cured.

M. FORDYCE.

St. Mary's Vicarage, Maryport, December 8, 1884.

Prices—1s. $1\frac{1}{2}$ d., 2s. 3d., and 4s. 6d. per Box.



Rheumatism Wind-stroke Sprains of all sorts Sprung Tendons Sore Throat Influenza

Stiffness

Cuts and Wounds Swellings gener; Broken Knees and Sore Shoulders Spavins [Bes Bruises Cracked Heels Heat Lumps Over-reaches Bites and Sting! Œdema or Swel-Flies and Noxis

ling of the Legs Insects Mange and other Skin Diseases and all irritable conditions the Skin.

TESTIMONIALS.

I tried your sample of "Hippacea" on one of my horses with a sore b It was a very severe case, caused by a side-saddle when hunting in all country. I found it heal the wound and also encourage the growth of hair more quickly and better than any remedy I have ever yet tried, in a slight ease it was really wonderful. Being the hunting season, and horses so Hable to hurt, I sent at once for more "Hippacea," not carin be without it in my stables, having found its really excellent virtues.

Moutpelier Riding School, Bath,

JAMES ROBERTS,

November 25, 1884.

Riding Maste

I have used "Hippacea" for some months, and have found it most be

ficial for cuts, bruises, and sore hoofs among my horses. Any wounheals very quickly.

Madras, 21st May, 1884.

J. H. PEELLE

Aladras, 21st May, 1001.

I dried your "Hippacea" on the throat of a young mare suffering for influenza. Sne was well in three days. Her companion caught the sale complaint, and I left it to nature in order to prove the remedy, and has been coughing and running at the nose for a fortnight. Please s me another tin of "Hippacea," as I do not want to be without it in stable.

Royal Crescent Mews, Bath,

Livery Stable Keeper Royal Crescent Mews, Bath, November 29, 1884.

Prices-2s. 9d., 5s. 6d., and 11s. per Pot.

HENRY'S

"JVARA-HARI," or FEVER DESTROYE

For Fevers of all sorts, Colds, and as a Tonic.

Prices—1s. 12d., 2s. 3d., and 3s. 9d. per Bottle.

HENRY'S

"COMP. ESS. of OMUM and CAMPH."

For Cholera, Indigestion, Flatulence, Colic, Spasms in the Stomach Bowels, as also for Dysmenhorrom (painful menstruction).

Prices-1s. 12d and 2s. 3d. per Bottle.

MANUFACTORY:

MADRAS, INDIA.

HEAD OFFICE:

2nd LINE BEACH, MADRAS.

CENTRAL DEPOT FOR EUROPE:

CROYDON, SURREY, ENGLAND.

N.B.—Agents (Wholesale and Retail) required everywhere. Good terms offered if references are satisfactor Correspondence in English, Spanish, French, German, and Italian.

EMEDIOS



PARA APLICACION EXTERNA.

La Cura para

Nealgia Rigidez de exceso **Paralisis** Sabañones de ejercicio Ci ca Ja eca nerviosa Rigidez de pes-Calles Cambres Almorranas cuezo Quaduras Enfermedad de la Llagas Tiña Deres garganta Cardenales Reaatismo Asma Bronquitis Erisipelas Lubago Go Tos Convulsiones Paperas Hi hazones

ita. - "THILUM" no contiene mercurio, opio, a nito ú otro ingrediente nocivo.

Le siguientes testimonios han sido escogidos de muchos cente res que se han recibido de varias partes del mundo :-

"Thilum" Henry viene usáudose en mi familia y me atrevo endario al piblico. Como emoliente, anodino y detergente losse virasombrosas. No hay duda alguna respecto de su eficacia aplicado en sen los casos de afecciones reumaticas, mientras que su fragrancia el iuconveniente de otros unguentos.

more, Bridge of Allan, WILLIAM J. VANSOMEREN, 23 Junio, 1881. Cirujano-General retirado, Madras.

onquitis, Calambres de la preñez, Reumatismo, e —Con su "Thilum" se ha curado mi niño de 3 meses de una bronna s aguda. El viernes hizo una semana se eucontraba tan malo que el
m co me di fo que no habia esperanza. El domingo siguiente por la noche
lique el "Thilum" y à la mañana estaba mucho mejor quedando com
nente curado con otras friegas de lo mismo. Para beneficio de las
mes, y señoras casadas digo que he probado tambien el "THILUM" en
el de calambres de la peor especie y tambien para otras enfermedades y
des que sufri antes y despues de mi parto y lo he encontrado de Pran
al dad. No puedo expresar el alivio que siempre me ha producido la untura,
y ato que no sea mas conocido entre las mujeres pues seguramente lo
uan si conocierau su eficacia. Tambien he usado el "THILUM" para
des reumáticos en los hombros y otras partes del cuerpo y segura de sus
entes virtudes sentiria no tencrio siempre a la mano.
mathmore Road, Croydon,
12 de Diciembre, 1884.

Precio $-5\frac{1}{2}$ rs., 11 rs., y $22\frac{1}{2}$ rs. la caja.

MARCA DE FÁBRICA DE HENRY



PARA

Reumatismo Cardenales y Ro- Esparabanes Dolores turas Enfermedades de Retortijones! Grietas en los talos hombros yes-Retortijones de los lones palda Œdema y Hincha- Ficaduras y mordetendones Enfermedades de la chones de las duras de moscas y otros insectos garganta piernas

Constipados [clases Hinchachones de todas clases Llagas de todas

Sarpullido y otras enfermedades de la piel, y todas los irritaciones cutáneas.

TESTIMONIOS.

He usado su mue-tra de "HIPPACEA" en uno de mis caballos que tenia una maladura en el lomo. Era grave y se le hibia becho por una rozadura de la siba cazando en terrono montañoso. No solamente ha curado la herida sino que la promovido el crecimiento del pelo en menos tiempo y nerica sino que ha pronovido el recimiento del pelo en menos tenipo y mejor que todos los temedios que he usado otras veces. En un easo menos grave, sus electos fueron maravillosos. Estando en plena época de caza y teniendo mis eauallos expuestos à heridas he pedido mas "HIPPACEA," pues despues de couocer sus excelentes virtudes no quiero pasarme sin ella.

Montpelier Ridding-school, Bath.

JAMES ROBERTS,

25 de Noviembre, 1884.

Desde hace algunos meses vengo usando la "HIPPACEA" y la he en-contrado excelente para cortaduras, golpes, y heridas en los cascos de mis caballos. Las beridas las cura con mucha rapidez. Madras, 21 de Mayo, 1884.

He usado la "HIPPACEA" en la garganta de una yegua que sufria de catarro, en tres dias estaba buena Su pareja cogió la misma enfermedad y deje obrar la naturaleza á fin de probar el remedio, y ya ha estado tosienco y destilando por la natiz quinee dias. Enviene Vd otra lata de "HIPPACEA" pues no quiero que falte en mis establos.

Royal Crescent Mews, Bath. 29 de Noviembre, 1884. JOHN TALL. Alquilador de caballos.

Precios-131 rs., 271 rs., y 55 rs. el tarro.

"JVARA-HARI Ó MATA-FIEBRE

DE HENRY, Para Fiebres de toda clase, 6 constipados y como tónico. Precios-5 rs., 11 rs., y 18 rs. la botella.

"Comp. Ess. de Omum y Camph." de

Para colera, indigestiones, flatulencias, cólicos, pasmos en el estómago y entrañas, menstruación penosa.

Precios $-5\frac{1}{2}$ rs., 11 rs., y $18\frac{1}{2}$ rs. la botella.

Oficina Principal:

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Fábricas:

MADRAS, INDIA.

DEPÓSITO CENTRAL EN EUROPA:

H. BOWDEN. 29 LANSDOWNE ROAD,

CROYDON, SURREY, INGLATERRA.

necesitan agentes (por mayor y menor) en todos los paises. Se ofrecen condiciones liberales cuando las referencias son satisfactorias.

Se lleva la correspondencia en inglés, espanol, francés, aleman, ó italiano.

ADDRESSED TO CHEMISTS AND DRUGGISTS.

HENRY

For the Radical Cure of Varicose Veins. Weakness, Ulcers, Eczema, and other Diseases of the Leg, and for Injuries of the Knee and Ankle Joints.

y far superior to any of the numerous imitations; are now being sold at less cost than those of other manufactur.

TESTIMONIAL:

From EDWARD C. ANDERSON, M.D., M.A., CANTAB.,

TO MESSRS. KROHNE & SESEMANN. OHNE & SESEMANN. TOM LAW, DARLINGTON, November 5th, 18
GENTLEMEN,—I have the greatest pleasure in acceding to your request, that I should, from my experience of the Martin's Bam testify respecting their excellence.

My knowledge of the quality of Bandages of English make is limited: for having, about fifteen months back, applied bandages sent to me from sonree, and noting the evident irritation and discomfort produced by them—so great, indeed, that each patient soon discontinued their applicance assed to recommend and use them.

sonree, and noting the evident irritation and discomfort produced by them—so great, indeed, that each patient soon discontinued their applicative cased to recommend and use them.

In April of this year, I for the first time used the original Martin's Bandage, and since then I have applied them and none clese to the limbs of ny twenty persons suffering from a variety of complaints, such as ulcers of the leg of old standing, which had resisted all treatment for more than for years; varieosities (the nusound leg of one patient, a man, measured 25 inches round the ealf, against 163 inches, the size of the sound leg; and condition was such that, before coming under my care, it had been by his former attendant seriously debated whether or not the leg should be amput to save life. This man goes about wearing a 21-foot Bandage, and the ealf of the unsound leg now measures 18 inches; crysipelas, dedma, rachitt-Suffice it that all, both young and old, have been enabled to wear them with comfort; most of the cases under treatment have been enrebenefited, and many, although well, continue to wear them on account of their safety and the support they give rise to.

I may appear to have said too much in their favour. I can assure you that my feeling is that I have said too little. The great success attending a use evidently arises from the excellent purity, smoothness, impermeability, and non-irritating nature of the Indiarubber of which each Bandig composed.

CAUTION TO THE TRADE.—The Sole Agents for the Genuine Martin's Bandages request the Trade to compare their Prices with a commonly charged for worthless imitations, which have any "Recommended by Dr. Martin," or as "Suggested by Dr. Martin," which isleading, the vendors having not the shadow of a title to use Dr. Martin's mane in connection with their bandages. Each GEZUINE EANDAGE stat with Dr. H. A. Martin's signature is warranted to be perfect in every respect, and to wear well.

For the Leg, from the Foot to below Enne —No. 1, thick, 7.3; No. 1a, medium, 6; No. 1e, t

Prices subject to 20 per ceut. disconnt. Special Terms for Export to Shippers and Colonial Agents.

For other sizes see complete Price List; also Dr. H. A. Martin's Pamphlet, describing Method of Treatment, which are sent Post Free on applicate to the Sole Wholesale Agents for Europe, Asia, Africa, and Australia,

KROHNE & SESEMANN, SURGICAL INSTRUMENT N

8 & 38, DUKE STREET, MANCHESTER SQUARE, LONDON.

Also Sole Agents for the Sale of Dr. H. A. Martin's Adbesive Plaster. Agents for the International Society for the Manufacture of Wound Drw Materials (Limited), Schaffhausen. Patentees of Dr. Siegle's Steam Spray Inhaler, the New Phable Metal Temperature Regulators, and Dr. Paquelin's Thermo Cauterc, &c.

(COMPRESSED CHLORATE OF POTASH)

FOR SORE THROAT.

Also AMMONIUM, BORAX, SODA, POTASH, &c., and various combinations in the COMPRESSED FORM.

These Pellets may be had in Boxes—put up in superior style—to retail at Sixpence and a Snilling each, or in $\frac{1}{2}$ -lb., 2-lb., 4-lb., and 7-lb. bottles or boxes, through any Wholesale House, or direct from the Makers.

MERCHANTS & EXPORTERS WILL FIND THESE GOODS WELL WORTHY THEIR ATTENTION.

BARTLETT HOOPER & CO., LONDON BRIDGE, E.C., LONDON.

PASTILLAS DE POTASIO DE HOOPER

(CLORATO DE POTASA COMPRIMIDO).

PARA LAS ENFERMEDADES DE LA GARGANTA, ETC.

Tambien AMONIO, BORRAJ, SOSA, POTASA, y varias combinaciones en la FORMA COMPRIMIDA.

Estas pastillas pueden obtenerse en eajas, emuaquetadas con elegancia para vender al por menor á 2½ rs. y 5 1s. caca una, ó en botellas ó cajas de 4 lba, 1 lba, 2 lbs y 4 lbs, de cualquier casa al por mayor ó directamente de los fabricantes. LOS COMERCIANTES Y EXPORTADORES ENCONTRARÁN ESTOS GÉNEROS DIGNOS DE LLAMAR SU ATENCION.

BARTLETT HOOPER & CO., LONDON BRIDGE, E.C., LONDRES.

COLD MEDALS-DUBLIN, 1882; BOSTON, 1883; LONDON, (INTERNATIONAL EXHIBITION) 1884.

SIR JAMES MURRAY'S R.F. FI.IIIN MAGNESIA.

The ORIGINAL Article, as prepared by the Inventor, Sir James Murray, M.D.

For over 60 years in use as an excellent remedy in cases of

AIDITY, INDIGESTION, HEARTBURN, GRAVEL, AND GOUT.

by all respectable Chemists, in LARGE-SIZED Bottles (the 1s. size containing nearly Double the quantity usually sold at that price), at 1/, 2/6, and 3/6 each.

AUTION.—Observe that the Signature of the Inventor is on every label.

SIR JAMES MURRAY'S

'LUID CAMPHOR

valuable remedy in cases of SLEEPLESSNESS and WEAK NERVES. Bottles, 1/ and 2/ each.

JAMES MURRAY & SON, Chemical Works, Temple Street, Dublin.
BARCLAY & SONS, 95 Farringdon Street, London.

IEDALLAS DE ORO-DUBLIN, 1882; BOSTON, 1883; LÓNDRES (EXPOSICION INTERNACIONAL), 1884.

IAGNESIA FLUIDA PURA

DE SIR JAMES MURRAY.

El artículo ORIGINAL segun lo preparaba el Inventor, Sir James Murray, M.D.,

Se viene usando desde hace mas de 60 años como remedio excelente en los casos de

DIAS, INDIGESTION, CARDIALGÍA, MAL DE PIEDRA Y GOTA.

a venden todos los boticarios respetables en BOTELLAS GRANDES (el tamaño de á 1s. contiene el doble de la cantidad que suele venderse á dicho precio), á 1/, 2/6 y 3/6 cada una.

JIDADO CON QUE CADA ETIQUETA LLEVE LA FIRMA DEL INVENTOR.

espúreas de nuestra MAGNESIA FLÚIDA en algunos puntos de Sudde América, tenemos el honor de anunciar al público, que en el JORNAL DO COMMERCIO DE RIO JANEIRO se está publicando en la actualidad una lista de las casas en donde puede obtenerse en aquel pais nuestra preparacion genuina.

JAMES MURRAY & SON, FÁBRICA QUÍMICA, TEMPLE STREET, DUBLIN.
BARCLAY & SONS, 95 FARRINGDON STREET, LÓNDRES.

AMPUTATION AVOIDED

THE KNIFE SUPERSEDED.

TRADE MARK.

REGISTERED OVER ALL THE GLOBE.



TRADE MARK.

REGISTERED OVER ALL TE GLOBE.

Cure the worst and most obstinate cases of Ulcers, Abscesses, Cancers, Tumours, Polypi, Carbuncles, Piles, Poisoned Wo all kinds (including Dog and Venomous Bites), and every form of Eruption and Skin Disease; also Ulcerated and Carr Affections peculiar to Females, without the aid of Lancet or Knife. Numbers have been cured after leaving various and Hospitals as incurable, or curable only by amputation.

The following are specimens of Testimonials received. A list of over sixty, each bearing full name and addrs, wrapped round each box.

ERSKINE HOUSE, NEAR TIDAL BASIN, VICTORIA DOCKS: Dec. 31, 1883. ERSKINE HOUSE, NEAR TIDAL BASIN, VICTORIA DOCKS: Dec. 31, 1883.

DEAR SIR.—I beg to inform you I have not a spot about me, and I believe you are an instrument in the Almighty's hands to do a world of good for your fellowerentures. Anyone to have seen me this time twelve months, and see me now, would say it was the greatest miracle ever made in skin disease. I have had spots on me or ahout forty years, have taken medicine of every description, haths, &c. &c., until November, 1882, and nothing ever could touch it. I was then recommended to use the Lion Onintment and Pills as a certain enre, and I tound them the masterpiece of the world. I have consulted great men, and they could not touch it. People must not be afraid of using the Lion Onintment; the more it pinches them the more it is drawing the disease out—only persevere, and the Lion Onintment and Pills will do their work. Now, God bless you in your undertaking.—From yours faithfully, MR. BURGESS.

SILVESTER STONEHOUSE STUART.

ALMA ROAD, next door to EAST HILL HOTEL, WANDSWORTH, late 2 BOLTON ROAD, GROVE PARK, CHISWICK, MIDDLESEX: February 7, 1883.

GROVE PARK, CHISWICK, MIDDLESEE,: February 7, 1883.

DEAR STR., I am happy to forward to you the following testimonial of the great value of your Lion Olutiment and Pills. Through the ill-treatment of my husband I have been suffering with poisoned blood, and, in consequence, a large absess formed in my neck, also syphilis affecting my leg. I have, too, been suffering many years from a diseased hip. I consulted several physicians, who said that I should not recover unless I had the bone taken out. Last May, 1882, I was advised to use your Lion Olintment and Pills by so doing I can scarcely describe the benefit received in a very short time, and I am happy to tell you that they saved my life, and I am now perfectly enred. Hoping through my case your wonderful Onitment and Pills may get well known for the benefit of my poor fellow-creatures. You are at liberty to refer anyone to me at any time should you wish.

I am, Sir, yours respectfully, ELIZABETH STILLWELL.

To Mr. E. Burgeles.

PROSPECT HOUSE, AMERSHAM COMMON: June 25, 1881. PROSPECT HOUSE, AMERSHAM COMMON; June 25, 1851.

SIR.—Please send me by return one box of your Pills. The hox of Lion Ointment I sent for is for Erysipelas in the face; do you think it suitable? [Most effectual.] Also send me another hox of the Lion Oiutment. I have enclosed stamps for the same. I have had Ointment from you before through a friend of mine. I had been suffering from a small tumour in the head for some years, and had the advice of medical men, and all said I must have it taken out; but, on applying your Ointment, in a fortaight it drew it out and made a complete cure of it.—Yours respectfully.

To Mr. E. Bungers.

MRS. E. HILL.

ELM LODGE, WIMBLEDON PARK, late 28 BALLANTINE STREET, YOR EO WANDSWORTH: January 17, 1881.

DEAR STR.—Having attended St. Thomas's Hospital for nine months, for greatly with a humour, extending from the back of the ear to the collar bone is the shoulder, and receiving not the least benefit, I was earnessly persuade or your Lion Ontment a trial. By so doing I can scarcely describe the streecived in a very short time. I am truly thankful to state I am quite we adale to resume my duties without trouble or inconvenience. I was also at several doctors during the five years I have been suffering from the turn having received the slightest benefit. Dear Sir, you are at heerty to publishe send anyone to my residence for satisfaction.—I am, Sir, yours most respective. To Mr. Burgers.

(The above was a most serious case. Photographs of the same, uncured a and the Fungus and Diseased Bone drawn away by the Ointmeut, can b application at 117 High Holborn, W.C.

application at III fight Hollooft, W.C.

SIR,—It gives me great pleasure to add to your numerous testimonials, years I suffered with a very had leg, and attended St. Bartholomew's, the U and Dalston Hospitals, and various Dispensaries, where they told me cancerous uleer, incurable, that I must lose may leg. However, being rect to use your Lion Ofntment, I did so, and in three mouths the cancer was dra and my leg made quite well.—I remain, yours &c.,

TO Mr. E. Burgess.

VERULAM, PORT NATAL, SOUTH AFRICA: Marel is DEAR SIR.—I feel it my duty to thank you for the wenderful way in winderful them that soured my hand of skin disease, which I had endure earlies years. When I was residing at St. John's Hill, Wandsworth, I purch is of your Ointment, and by the end of the fourth week, it had perfectly cound as and I have seen nothing of it since. Previously to applying your Ointme theen to my own doctor at Wandsworth with it, and also to several Sk is Hospitals in London, but to no avail. They said it could not be cured, it was therefore, be endured; but, as I said before, your Ointmen has cured it. One came out here (twelve months ago), I brought some with me, and am gladid. I have found it very useful. I gave some to a gentleman who had his leg way with Natal sores, and could not walk for them, and it has perfectly cured may be only one obliged to send home to my friends to send me out some, which we shortly to arrive, for, as I said before, it is very useful; in fact, cures ever low which I have tried it. I fonly you had an agent here, I would recome I were youngers.

Various Cancers, Tumours, Diseased Bones, &c., extracted by the LION OINTMENTIN PILLS; also Photographs of Cases Cured are on view at 117 High Holborn. A guaranted their virtue.

A good sale for this remedy always follows its introduction by proof of its efficacy. Foreign Houses will do well tordesamples through their English agents, also supplies of Bills, Photographs of Cases Cured, &c., which always ensure a condition

The Ointment is put up in air-tight, grease-proof boxes, and will keep good any length of time in any climate. The are in stout wooden boxes, and also retain their virtue for years. Prices, 1s. 1½d., 2s. 9d., 4s. 6d., 1is., and 22s. each.

USUAL WHOLESALE TERMS.

BURG

117 HIGH HOLBORN, and KINGSGATE ST., LONDON, V.O. Late WANDSWORTH, S.W.

MEDICATED GRAPES"

THE GREATEST PHARMACEUTICAL NOVELTY OF THE DAY.

BY ROYAL LETTERS PATENT.

EDICATED GRAPES " are the true fruit of the vine charged with the medicine and beautifully crystallised—in reality, medicine disguised as a sweetment.

EDICATED GRAPES " are put up in 4 forms, in 2-lb. Bottles with highly-finished label, and prove a very attractive article on the counter.

EDICATED GRAPES " are, "No. 1, Aperient"; "No. 2, Worm"; "No. 3, Cough"; "No. 4, Digostive"; and can be retailed at 3d. and 4d. per ounce.

EDICATED GRAPES " can be had direct from the Patentees, or through the usual wholesale houses.

DICATED GRAPES." Every Chemist should at once order a sample bottle of each kind, as their popularity is assured.

DICATED GRAPES." A special make is prepared for the Foreign Trade, and these orders should be plainly marked, "For Export."

EMISTS AND MEDICAL MEN CAN HAVE ANY FORMULÆ PREPARED IN THIS WAY TO THEIR ORDER.

PLENNOX BROWN, Threat Hospital, London, writes :—" An ingenious idea, and without doubt a valuable medium."

NEDICT & CO., 23 RUTLAND ST., LEICESTER.

KING'S HOP BITTERS

(THE KING OF PICK-ME-UPS)

Are old-established, registered, and protected under the Trade Marks Act, as having been prepared before Angust, 1875. They are an excellent aromatic tonic, palatale, and command a good sale. Put up in bottles to retail at 1/1½ and 2/3 per bottle, also in packets containing ingredients for making the same at 7½d, and 1/1½ per packet. Show Tablets and Counter Bills with testimonials supplied. Each Bottle and Packet bear, as Trade Marks, "King Alfred's Head" and "British Flags." Beware of Intringements.

MANUFACTUREN ONLY AT

King's Hop Bitter Depot, Croydon.

Special agents appointed in all parts. More wanted for unrepresented localities. Obtainable direct from ALFRED KING & CO., who will forward all particulars on application.

London Agents, Messrs. Newbery & Son, 1 King Edward St., Newgate St., E.C.



FINE HEALTHY CHILDREN!

LDART'S GALACTAGOGUE

Or MILK PRODUCER.

In Bottles, 2s. 9d., 4s. 6d. and 11s.

S preparation is the greatest boon ever invented for iothers and Wet Nurses. Its nse produces a copious flow of rich thing milk, which thoroughly satisfies the infant, prevents rickets, otes easy dentition, and lays the foundation of a strong, healthy buttion. It also prevents debility in the mother whilst suckling, and a pital remedy for acidity, flatulence, indigestion, &c. If taken during ency it promotes perfect gestation, and effectively prevents decay of each, so common to mothers during this period.

mmands a Ready Sale wherever introduced.
Will keep good in any climate.

hists supplied with Handbills through any of the Wholesale Houses.

PREPARED BY

J. GELDART, PHARMACIST, LIVERPOOL,

rietor of the Celebrated PARISIAN STARCH GLAZE, ad Sole Consignee for the United Kingdom of the world-renowned BRAND'S AMERICAN BITTERS.

NIÑOS ROBUSTOS Y FUERTES.

GALACTAGOGUE DE GELDART

Ó PRODUCTOR DE LECHE,

En frascos $13\frac{1}{2}$ rs., $22\frac{1}{2}$ rs. y $55\frac{1}{2}$ rs.

PSTE preparado es la mayor bendicion que jamas se ha ofrecido à las madres y nodrizas. Cen su uso se obtiene un copioso surtido de leche rica y nutritiva que barta el niño, obvia las deformidades, promuce una denticion fácil y coloca la base de una constitución tuerte y robusta. Tambien mantiene à la madre en salud buena durante la cria; es un magnifico remedio contra las acedias, flatulencias, indigestiones, etc. Si se toma durante el periodo del embarazo, prómueve una gestacion perfecta é impire eficazimente la decadencia de los dientes tan comun en las mujeres durante este periodo.

Se vende facilmente en donde quiera que se introduce. Se conserva bien en cualquier clima.

Los furmaccúticos pueden obtener anuncios, etc., por medio de las casas al por mayor.

PREPARADO POR

J. GELDART, Farmaceútico, Liverpool, Inglaterra.

Propietario del afamado LUSTRE de ALMIDON PARISIEN, y único consignatario en el Reino Unido para los celebres amargos "BRAND'S AMERICAN BITTERS."

The ONLY MEDICINE of the KIND AWARDED A CERTIFICATE of MERIT CALCUTTA INTERNATIONAL EXHIBITION, 1883-4.

AND THE ONLY TRADE: MARK-PHOSPHODYNE-REGISTERED UNDER THE TRADE MARKS ACT

Will keep in any Climate, and is therefore specially adapted for SHIPPING, and wherever introduced COMMANDS A LA Will keep in any Climate, and is therefore specially adapted for SHIPPING, and wherever introduced COMMANDS A LARGE SALE,

Dr. LALOR'S PHOSPHODYNE, from its immediate effects in cases of Exhaustion, Lassitude, Stomach and Liver Complaints, Ung
and Kidney Difficulties, Want of Stamina, Nervous Debility, and Malarial Diseases, HAS ATTAINED A VERY LARGE

SALE in Africa, China, East and West Indies, the Colonies, Turkey, Asia, and other Hot Climates,

Dr. LALOR'S PHOSPHODYNE has hecome a Household Necessity in every nation and country in the World. Unequalled se a Brain and Nerve &

Highly recommended by the élite of the Medical Profession for Dyspepsia, Mental and Physical Exhaustion, Nervousness,

Wakefulness, Diminished Vitality, &c.

Dr. LALOR'S PHOSPHODYNE makes an agreeable Beverage with Water Only, INVIGORATING and VITALISING the BLOOD with the

PHOSPHORIC or active Principle of Life.

Sold in Bottles, at 4s. 6d. and 11s., by all Wholesale and Retail Medicine Vendors throughout the World. Manufactured only

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ounce . 8/ per gross. | 12 ounce . 13
ounce . 8/6 , | 16 ounce . 1 13/ per gross. 16/ ,, 6 and 8 ounce

| 16 ounce | 10, | 16 ounce | 17, | 17, | 17, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, | 18, 5/ per gross. 1 ounce ... ounce and under

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3rd.—The inside of the Pobeing rounded or egg-shap the contents can be entire removed without waste.

4th.—Great attention has be paid to insure accuracy contents.

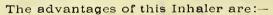
PRICES. $\begin{cases} \frac{1}{8} & \frac{1}{4} & \frac{1}{2} & \frac{3}{4} & 1 \\ 18/ & 18/ & 20/ & 22' & 24/ & 27/ & 34/ & 42' & 54/ & 66/ per Gross \end{cases}$

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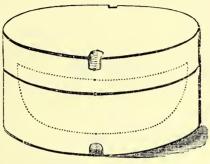
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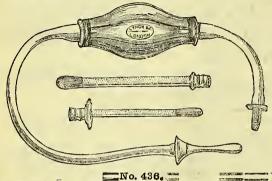
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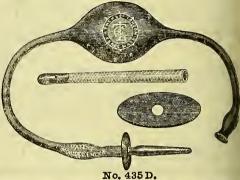


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SUBJOINED ARE PRESENT PRICES:

		-	. (
433A.	HIGGINSON'S, unvarnished india-rubber, with rectum pipe only, in slide cedar boxes per doz.	1 5	
433в.	Ditto, with elastic-gum vagina pipe and leather shield ,,	1 10	1
434.	Ordinary Higginson's, barrel shape, with bone rectum pipe, elastic gum vagina pipe, to plug on, and patent leather		
	shield, in slide cedar box	1 12	1
434AA.	Ditto, fitted with vagina pipe with reversed current ,,	1 16	- 1
434A.	Ditto, ditto, with disconnecting mounts ,,	1 14	- 1
435c.	LYNCH'S (Higginson's principle), black, green, red or white india-rubber, requiring no metal mounts, in one		
	continuous piece, warranted not to split, fitted with vulcanite rectum pipe, in slide cedar box per doz.	1 10	
435D.	Ditto, with elastic-gum vagina pipe, and leather shield, in slide cedar box ,,	1 15	
436.	LYNCH'S FAMILY (Higginson's principle), fitted with bone bulb pointed rectum pipe for adults, elastic-gum vagina		
	pipe, and elastic-gum rectum pipe with bone shield for children, in mahogany box per doz.	2 8	
437.	Ditto, in slide cedar box	2 2	Es
437A.	LYNCH'S PERFECTION, in mahogany box	2 16	3
437в.	Ditto, in slide cedar box	2 10	
437c.	Ditto, in superior mahogany box, with lock and key ,,,	3 12	1
437D.	Ditto, in oval boxes of cloth and leather ,,	2 15	1
437E.	LYNCH'S COMPLETE HOUSEHOLD SYRINGE, consisting of Higginson's Enema with disconnecting mounts,		
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	elastic-gum vagina pipe, and bone pipes for ear, eyes, and nose, in mahogany box each	0 7	
	Discount 10 non cent Monthly 5 non cent Half yearly Account		

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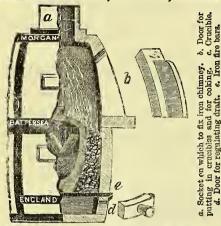
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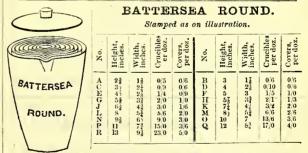


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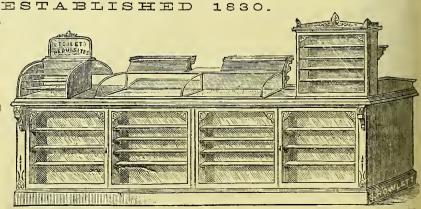
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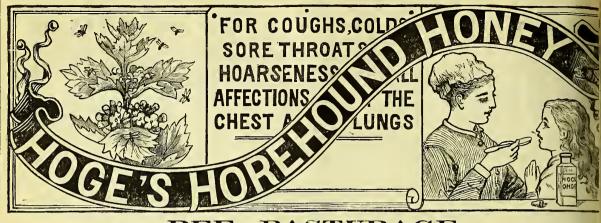
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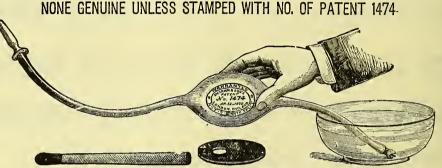
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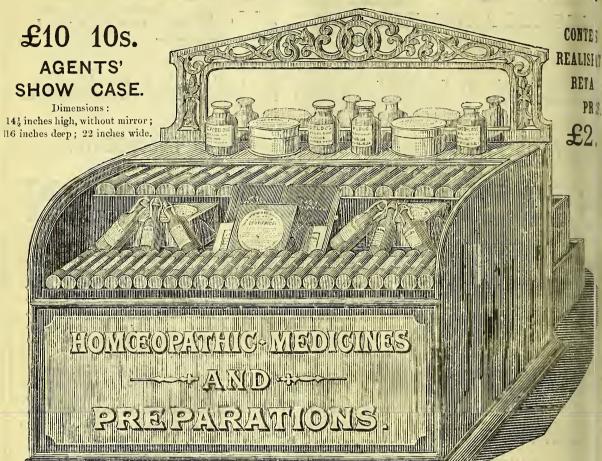
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